KJOLHAUG ENVIRONMENTAL SERVICES COMPANY

Providing Sound, Balanced, Comprehensive Natural Resource Solutions

Letter of Transmittal

TO:	NAME	COMPANY	Project
	Ken Powell	RCWD	Centerville Industrial Park Connector Road
CC:	Tim Fell	USCOE	
	Dallas Larson	City of Centerville	
	Lance Hoff/Tom Peterson	Bonestroo	

FROM:	NAME	DATE	Copies	Description
	Mike DeRuyter	November 18, 2005	8 (1)	Wetland Permit Application

RE:	For review/distribution

☑ **FYI** ☐ **For Your Review** ☐ **Please Reply** ☐ **As We Discussed**

- **Comments:**

Ken/Tim-
Enclosed are copies of the Wetland Permit Application for the Centerville Industrial Park Connector Road project. Please send out for comment and begin your review process as soon as possible. We request to be put on the agenda for the RCWD Board's December permitting meeting. Please feel free to call me with any questions or if you need additional information.
Thanks
Mike

RECEIVED
NOV 17 2005

26105 Wild Rose Lane, Shorewood, Minnesota 55331, Phone: 952-401-8757, Fax: 952-401-8798

Centerville Industrial Park Connector Road

Centerville, Minnesota

Wetland Permit Application

Prepared for
City of Centerville

by
Kjolhaug Environmental Services Company, Inc.
KES Project No. 2005-185

November 17, 2005

TABLE OF CONTENTS

Centerville Industrial Park
Connector Road

Centerville, Minnesota

Wetland Permit Application

I. INTRODUCTION

The City of Centerville is proposing to construct an east-west connector street between 20th and 21st Avenue and complete rough grading for 3 industrial lots on approximately 20 acres of land in the City of Centerville, Minnesota. The proposed plan involves grading for the connector street, rough grading in anticipation of industrial development, and stormwater ponds in addition to installation of utilities.

The project is part of the City's long-term plan to improve the safety and efficiency of its transportation system by extending 21st Avenue south to Cedar Street, and providing 2 east-west connections between 20th and 21st Avenues. The planned road system will allow safe and efficient access to the properties between 20th Avenue and Interstate 35E, which are zoned for light-industrial development. Because County Highway 14 and Cedar Street are ¾-mile apart, the City's plan is to have 2 east-west connections from 20th to 21st Avenues spaced ¼-mile apart from each other, Highway 14, and Cedar Street. This application is associated with the northern connector street, which will be located on the north side of Clearwater Creek.

The site is located in the SW ¼, NW ¼, Section 24, Township 31N, Range 22W, City of Centerville, Anoka County, Minnesota. The project site lies between 20th Avenue South and 21st Avenue South, one-eighth mile south of County Road 14, and approximately one-quarter mile southwest from the junction of Interstate 35E and County Road 14 (**Figure 1**). Surrounding land uses include commercial development to the north and west, with undeveloped land bordering the site to the east, and cropland to the south.

The site consists primarily of upland meadow and wetlands. A ditch running from the north to south through the west side of the site (Anoka County Ditch #55) discharges into another ditch (Clearwater Creek- Anoka/Washington Judicial Ditch #3) located just to the south of the property, which flowed toward the northwest. The site has gently rolling topography, with several areas of wetland in the southern half of the property.

Portions of 2 wetlands were identified and delineated within the project area by Kjolhaug Environmental Services Company (KES) in May, 2004 (**Figure 2**), as described in the attached wetland delineation report (**Appendix A**).

The project would require filling1.97 acres of Type 1, partially drained wetland, which would be replaced through the purchase of 0.74 acres of new wetland credit (NWC) and

0.74 acres of public value credit (PVC) from the BWSR transportation wetland bank, and on-site replacement in the form of 1.34 acres of NWC and 1.12 acres of PVC for stormwater treatment ponds and upland buffer areas (**Figure 3**). The following text presents a sequencing discussion and describes the proposed replacement plan. Figures and appendices referenced in this application are included. The Minnesota Local/State/Federal Application Forms for Water/Wetlands Projects is included in **Appendices B and C**.

II. SEQUENCING DISCUSSION

The following discussion addresses wetland avoidance, impact minimization, impact reduction and elimination over time, and replacement in compliance with the Minnesota Wetland Conservation Act (WCA) requirements. Specifically, the sequencing discussion includes a summary of alternatives and changes made to the plan to minimize wetland impacts. All avoidance and minimization options considered met the following goals for the development:

1. Minimize direct, indirect, and long-term impacts to on-site wetlands and downstream waterbodies.
2. Floodplain/floodway avoidance/replacement
3. Provide adequate stormwater treatment to meet City, Watershed, and NPDES requirements.
4. Provide an east-west connection road between 20th and 21st Avenues South on the north side of Clearwater Creek that meets County road spacing requirements.
5. Realign Anoka County Ditch #55 through the property to minimize interference with proposed industrial development.

The following alternatives were evaluated within the criteria and constraints described above. The primary constraint on the City's ability to avoid impacting wetlands is Anoka County's road spacing requirements, which require that the proposed street be spaced at least ¼-mile south of Main Street (County Highway 14).

Wetland Avoidance

Per WCA guidelines, wetland avoidance alternatives evaluated included no-build and alternate project designs that avoid all wetland impacts.

The *no-build alternative* would avoid direct impacts to all wetlands on the site, but not allow the City to construct the needed east-west connector street. The proposed street is part of the City's long-term transportation plan to extend 21st Avenue as a collector road between County Highway 14 and the southern border of the City (Cedar Street), and to provide 2 connections between 20th and 21st Avenues (**Figure 4**). The purpose of the street improvements is to facilitate safe and efficient traffic flow through the southeastern portion of the City in a pattern conducive to the area's industrial zoning. Abandoning the project would leave a large section of the planned industrial development without safe and efficient roadways. The City has already extended utilities to the area in anticipation

of industrial development, and surrounding land uses are all conducive to industrial zoning. The proposed street improvements will provide safe and efficient access to available properties, consistent with the City's development plan. For these reasons, the no-build alternative was rejected.

Alternative project designs that avoid all wetland impacts and allow the City to provide the needed connector street are not possible. Moving the proposed road to the north would avoid all wetland impact, but the Anoka County Highway Department desires there to be at least ¼-mile separation between the proposed street and County Highway 14. Because the separation under the proposed plan is already less than ¼-mile, shifting the connector road further to the north to avoid wetlands is infeasible. The road cannot be shifted to the south in order to avoid wetland impacts because it would encroach into the floodway of Clearwater Creek and impact a greater area of wetland. If the proposed road were shifted south of the creek to avoid all wetland impact, it would fail to meet the City's goals for an efficient road system conducive to the area's industrial zoning.

The remaining wetland impact on the north side of the proposed road will be associated with grading for the 3 industrial lots (Parcels B, C, and D- see Figure 3). Standard 2.5-acre industrial lots in the City require a 300 foot width and 350 foot lot depth. While exceptions have been made to the lot width requirements to allow space for stormwater infiltration (lot widths were narrowed to 278 feet), the lot depth requirements must be maintained to allow sufficient space for trucks to turn in the loading areas behind the future buildings. Typical industrial lot usage would involve warehouse-style facilities that must accommodate semi-truck loading areas, and the standard lot dimensions described above are necessary for these uses.

While the wetland remnants north of the proposed connector road could be physically avoided during grading for the 3 lots, the planned industrial uses will necessitate the diversion of runoff from the site to stormwater treatment ponds. Because hydrology of these wetlands is primarily driven by surface runoff, significant decreases to watersheds supporting the wetlands would make it difficult to maintain wetland hydrology after the lots are developed. Any amount of industrial development on the area north of the road would involve significant alteration to the watershed supporting the remaining wetland fragments. The only alternative that would avoid impacts to the remaining wetlands north of the proposed road would be to leave the lots entirely undeveloped, which is an inefficient use of available land that is zoned and serviced by utilities required for industrial development.

The proposed realignment of Anoka County Ditch #55 is necessary because the existing ditch crosses Parcel D at an angle, and would divide the lots into 2 smaller parcels that would not be viable for industrial development. The proposed plan would realign the ditch into a north-south orientation between Parcels C and D, route it under the proposed roadway through a culvert, and reconnect it with the original ditch near the southern property line. The plan would involve abandoning most of the existing ditch within the property boundaries, including a short section south of the proposed roadway where the ditch currently crosses Wetland 2. The new alignment would cross Wetland 2 at the

narrowest possible section to minimize potential drainage effects. In addition, a 1 foot high berm will be graded on either side of the ditch to prevent drainage of the wetland. Given the low permeability of the soils on the site, it is assumed that there will be minimal drainage impacts to the wetlands due to this realignment.

Because alternate designs would not satisfy the City's goals for the project, it was determined that prudent and feasible alternative project designs that avoid direct and indirect impacts to wetlands do not exist within the context of the scope of the development, project goals, and site constraints.

Wetland Impact Minimization

The ***Proposed Plan*** (Figure 3) attempts to balance efficient land use and minimize wetland and other environmental impacts. An earlier version of the plan (**Figure 5**) had the proposed new road located along the northern edge of the floodway for Clearwater Creek. While this alignment was preferable for the County's spacing requirements and maximized the size of the industrial lots to the north, it also required more wetland impact. Under the proposed plan, the road has been shifted 50 feet to the north of the floodway, which reduced the amount of wetland fill by approximately 0.4 acre while still meeting the County's spacing requirements, and allowing industrial use of the remaining upland north of the road.

In addition, the right-of-way for the proposed new road has been reduced to 60 feet wide from the standard 80-foot width in order to minimize wetland impacts. Proposed impacts to wetland on the south side of the road will be minimized by using 3:1 sideslopes.

Longterm impacts to the remainder of the wetlands will be minimized by using best management practices during construction and establishing upland buffer areas adjacent to the wetlands.

Wetland Impact Rectification

No temporary impacts are proposed with this plan. Impact rectification does not apply.

Wetland Impact Reduction or Elimination Over Time

The following steps will be taken to minimize the potential for future degradation to the remaining wetlands and down flow aquatic resources due to sediments and contaminants:

- Standard Best Management Practices (BMP's) will be implemented during construction to prevent erosion into the remaining wetlands.
- The proposed storm water ponds, indicated on Figure 3, will pre-treat runoff water from impervious surfaces before it enters the remaining wetlands and replacement wetlands.
- The remaining portions of the existing wetlands will be incorporated with the replacement wetlands to maintain wetland hydrology, restore native vegetation, and provide a more natural appearing replacement area.

- Upland buffers of average 25foot width will be established adjacent to the north side of the remaining and replacement wetlands.

Summary of Unavoidable Impacts

The proposed plan represents a reasonable effort to accommodate the desired project while minimizing downstream waterbody impacts and replacing unavoidable impacts where appropriate. The proposed plan results in the elimination of wetland through 1.97 acres of unavoidable fill and secondary impacts. The plan avoids impacts to the remaining wetlands while accomplishing project requirements.

III. WETLAND REPLACEMENT PLAN

Replacement Requirement

Proposed direct wetland impacts involve filling 1.97 acres (85,981 square feet) of Type 1 wetland. The required replacement for wetland impacts in a "50 to 80% county" (i.e. a county with between 50 and 80 percent of its presettlement wetland acreage remaining) is at a 2:1 ratio. The required replacement calculations are as follows:

85,981 sq. ft. of proposed fill/diversion of runoff
x 2 (2:1 ratio)
171,962 sq. ft. (3.95 acres) of required replacement

The proposed wetland replacement plan is intended to satisfy all WCA and Section 404 requirements. This plan includes the purchase of 32,183 square feet (0.74 acre) of NWC and 32,183 square feet of PVC from BWSR's wetland bank. The remainder of the replacement will consist of on-site creation of 58,370 square feet (1.34 acres) of new wetland and 48,787 square feet (1.12 acres) of upland buffer areas adjacent to the new wetland (Figure 3).

New Wetland Credits

The proposed replacement wetlands are located adjacent to the remaining existing wetlands south of the proposed road right-of-way (Figure 3). In order to preserve wetland hydrology in the existing portions of Wetlands 1 and 2, they will be incorporated into the new wetland areas through shallow excavation. Seven (7) areas of new wetland (Replacement Wetlands A through G, **Figures 3 and 6**) will be established south of the proposed road. The predicted normal water level of the wetlands will be 898.5 ft msl, with the new wetland boundary predicted to occur at 899.0. Wetlands will be separated from the newly realigned County Ditch #55 by low berms to be constructed on either side of the ditch, each with a top elevation of 899.0 ft msl.

Proposed water depths will generally be 1 foot or less with the replacement wetlands anticipated to develop into Type 1 (saturated emergent) wetlands, similar to the impacted wetlands. The replacement wetland areas will be excavated down from the existing elevations as shown on Figure 6. Hydrology will be supplied by surface runoff and

treated stormwater from the proposed treatment ponds. The outlet for the proposed replacement/existing wetland complex on the east side will primarily be through overland flow to the south toward Clearwater Creek. The western portion of the area will outlet into County Ditch #55 over a 5-foot wide riprapped spillways at an elevation of 898.5. The general goal of the replacement wetlands is to create areas of temporarily-flooded, emergent wetlands.

Existing fine sandy loam soils observed in the area are anticipated to provide an appropriate substrate for wetland establishment. Organic topsoil will not be placed in the fringe areas of the wetland in order to avoid spreading reed canary grass. Suitable topsoil from upland areas of the site will instead be placed in the wetland replacement areas to provide an appropriate substrate for wetland plant establishment. Fringe areas of the created wetlands above the predicted normal water level will be seeded with an appropriate temporary cover crop following initial construction, and the replacement wetlands and remaining existing wetlands will be seeded with a native grass/forb mixture similar to the wet meadow seed mixture shown in **Appendix C** as soon as practical. Seed will be obtained from a local native seed company and applied at standard recommended rates. If additional new wetland is generated than is needed for to satisfy the replacement requirements, the City may bank the extra credits.

Public Value Credits

PVC will be generated by the construction of the 2 stormwater treatment ponds adjacent to the new wetlands. As allowed under WCA rules, PVC credit will be claimed for 100 percent of the treatment areas of the ponds (areas below the normal water level), which will total 24,369 square feet of PVC.

Wherever practical, a 25-foot average width upland buffer will be established along the boundaries of the new replacement wetlands as shown on the plan sheets. In areas where the proposed stormwater treatment ponds occur adjacent to the new wetlands, upland buffer will be established between the normal water level of the ponds and the proposed wetland boundaries. The buffer will be seeded with a native mesic prairie seed mix as detailed in Appendix C. The new wetland area as well as buffer areas will be protected under WCA restrictions and covenants. A total of 24,285 square feet of upland buffer will be established adjacent to the new wetland areas.

V. REPLACEMENT WETLAND MONITORING PLAN

The wetland creation areas will be monitored in compliance with the Wetland Conservation Act. Monitoring will include the following required components, as listed in the WCA rules:

1. A description of the project location, size, current wetland type (Cowardin classification), and desired wetland type (goal).
2. A comparison of the as-built conditions in relation to the design specifications (first annual monitoring only) and a rationale for significant changes.

3. Seasonal water level elevations measured during the period April through October (msl or referenced to a known bench mark).
4. A list of the dominant vegetation in the wetland, including common names of the vegetation exceeding 20 percent coverage and an estimate of coverage; for example, 50 percent willow, 20 percent cattail, and 30 percent sedge.
5. Color photographs of the project area taken during the period June through August, referenced to the fixed photo-reference points identified on the Wetland Replacement Plan and labeled accordingly.

The replacement wetland will be monitored for a maximum of five years after creation and monitoring reports will be submitted to the Rice Creek Watershed District each year. The replacement wetland will be examined two times between April and October each year and the depth of standing water or depth to free water in an unlined bore hole will be measured from the wetland hydrology monitoring points chosen after construction. Color photographs of the vegetation within the wetland creation area will be taken during each growing season from the photo-reference points shown on the Wetland Replacement Plan. Hydrology measurements will be evaluated to assess the viability of the wetland in relation to the creation/restoration goal. The percent coverage of dominant vegetation will be estimated visually. All monitoring reports will include a description of the condition and composition of the vegetation within the wetland replacement area. When it can be shown that the mitigation is successful, the applicant will request that the remainder of the monitoring requirement be waived.

CENTERVILLE INDUSTRIAL PARK CONNECTOR ROAD

Wetland Permit Application

Figures:

- Figure 1 – Site Location Map
- Figure 2 – Existing Conditions
- Figure 3 – Mitigation/Site Plan
- Figure 4 – Project Location/Road Spacing Map
- Figure 5 – Old Concept Drawing
- Figure 6 – Grading Plan

Note: Site boundaries on this figure are approximate and do not constitute an official survey product.

Site Location

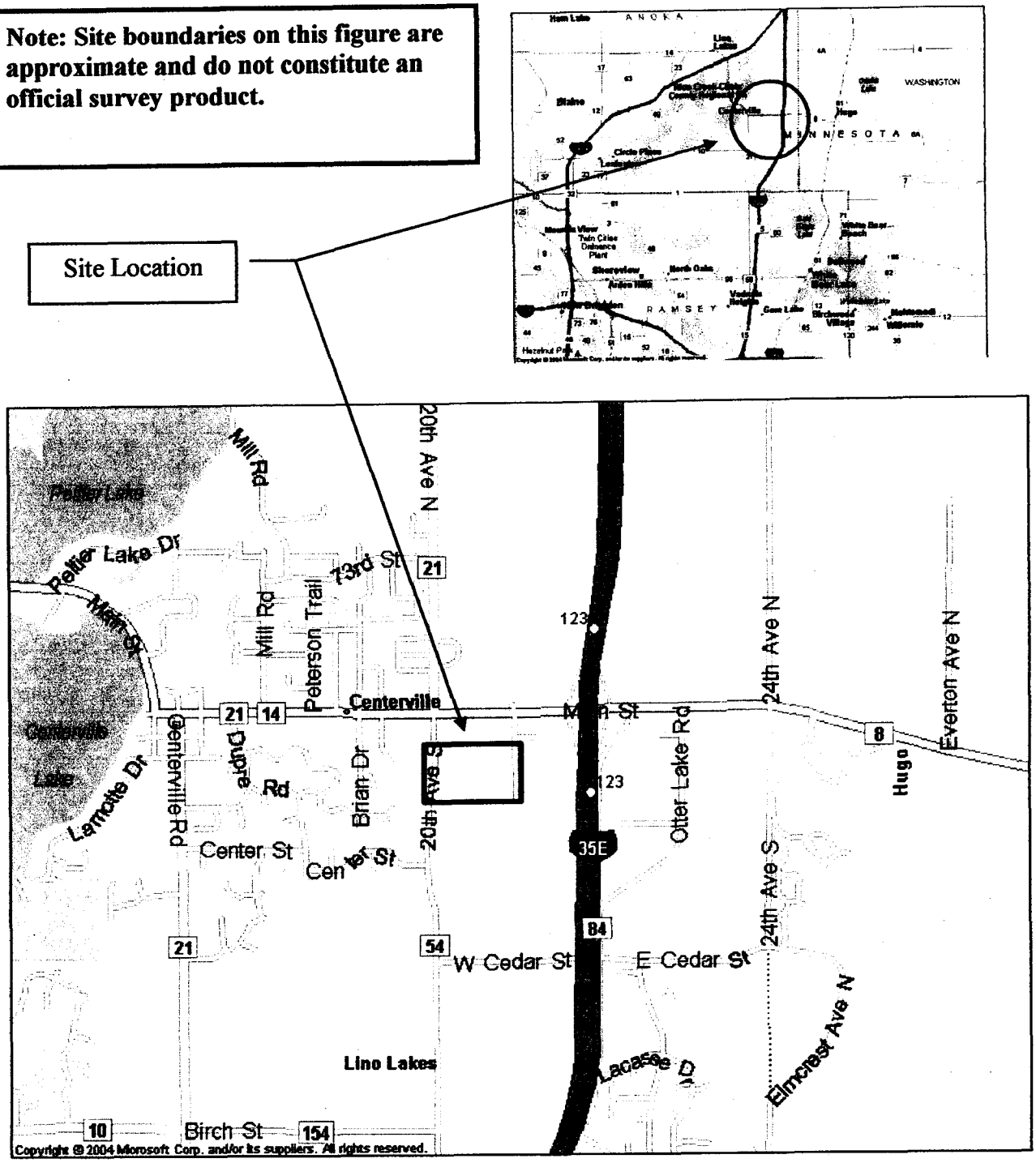


Figure 1 – Site Location Map

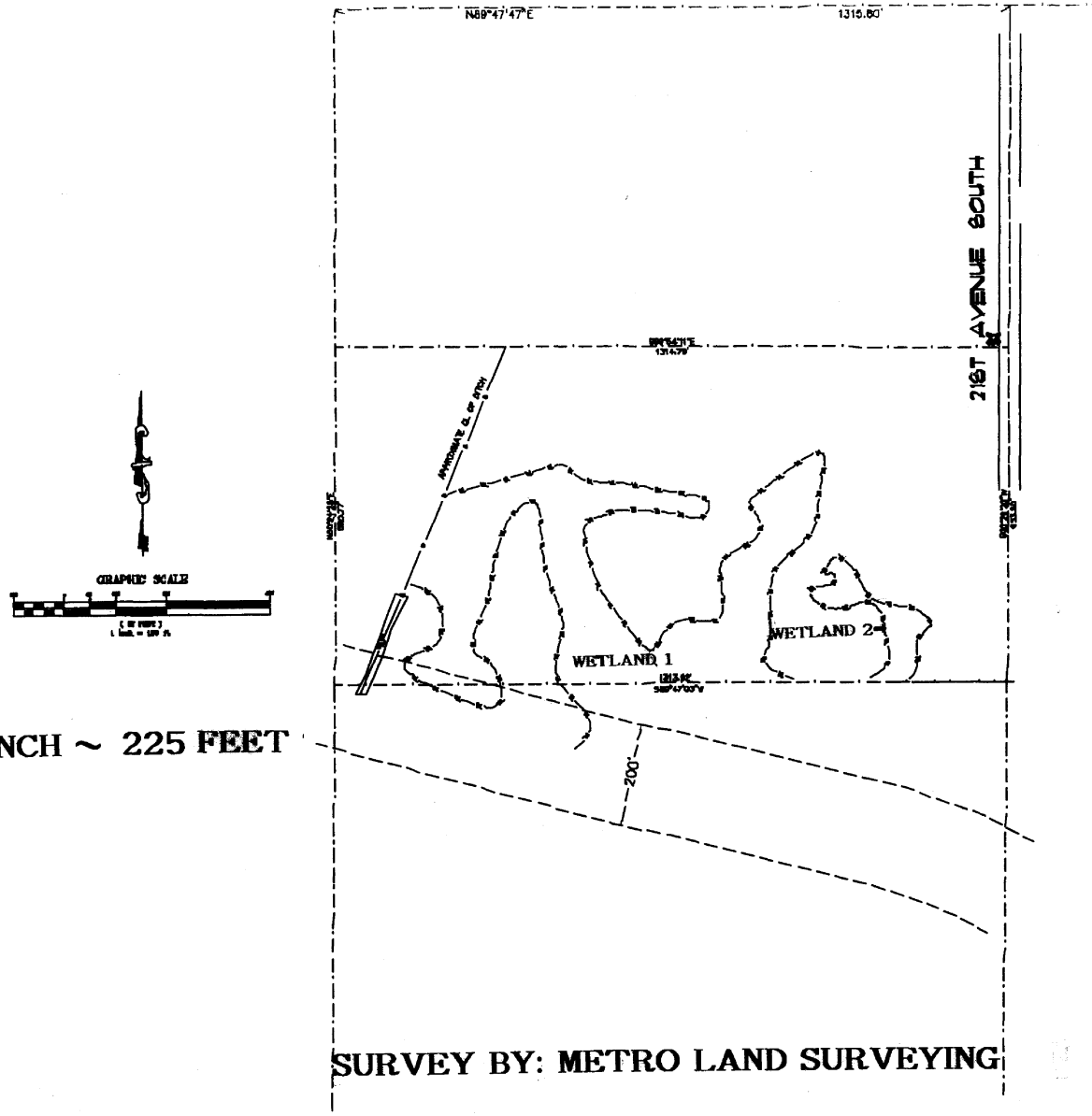
Lloyd Drilling Site (KES No. 2004-048)
Centerville, Minnesota

KJOLHAUG ENVIRONMENTAL SERVICES COMPANY

N

No Scale

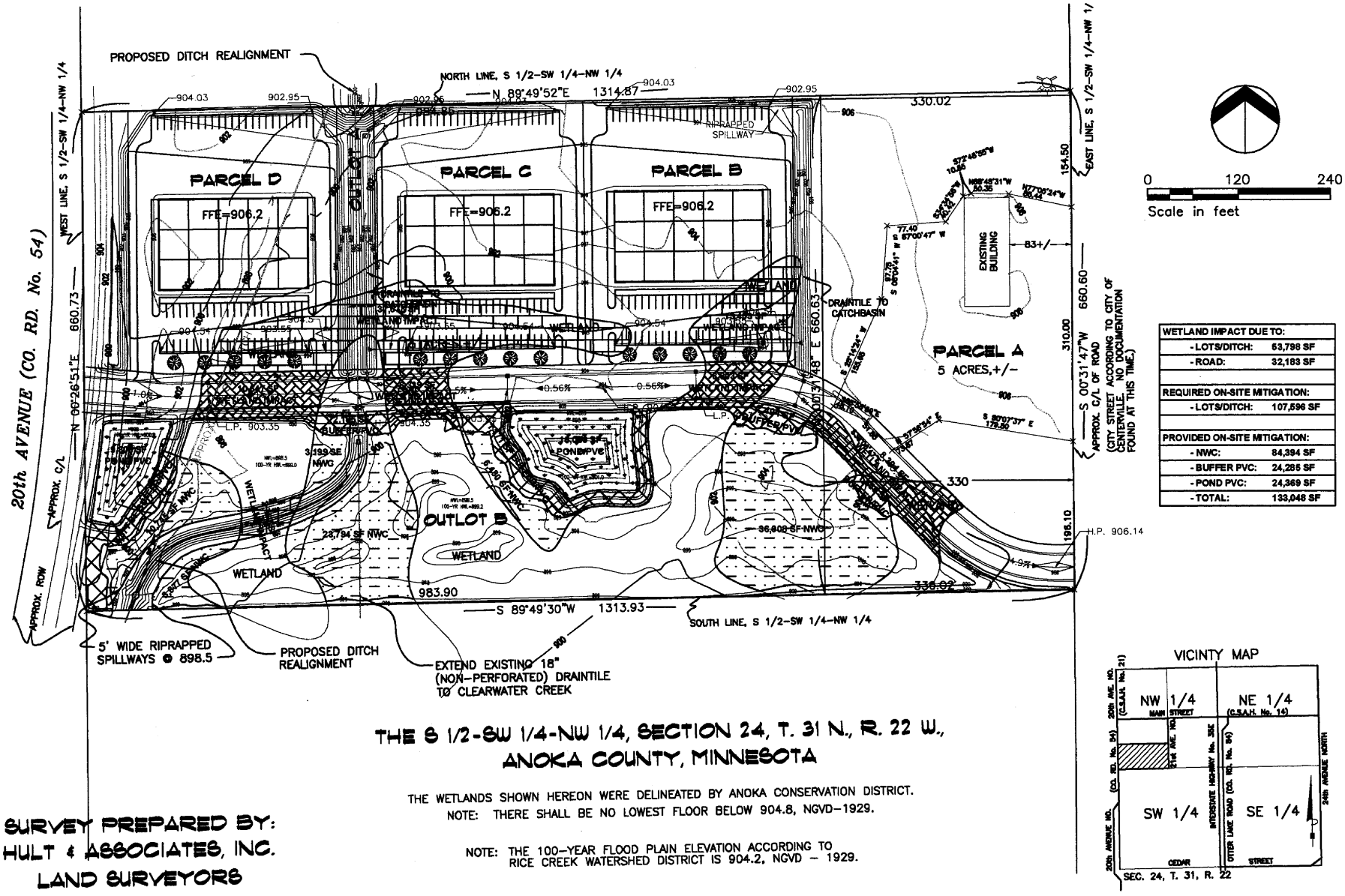
LLOYD DRILLING SITE
CENTERVILLE,MN



SCALE: 1 INCH ~ 225 FEET

SURVEY BY: METRO LAND SURVEYING

FIGURE 2



0 120 240

Scale in feet

WETLAND IMPACT DUE TO:	
- LOTS/DITCH:	53,798 SF
- ROAD:	32,183 SF
REQUIRED ON-SITE MITIGATION:	
- LOTS/DITCH:	107,596 SF
PROVIDED ON-SITE MITIGATION:	
- NWC:	84,394 SF
- BUFFER PVC:	24,285 SF
- POND PVC:	24,369 SF
- TOTAL:	133,048 SF

VICINITY MAP

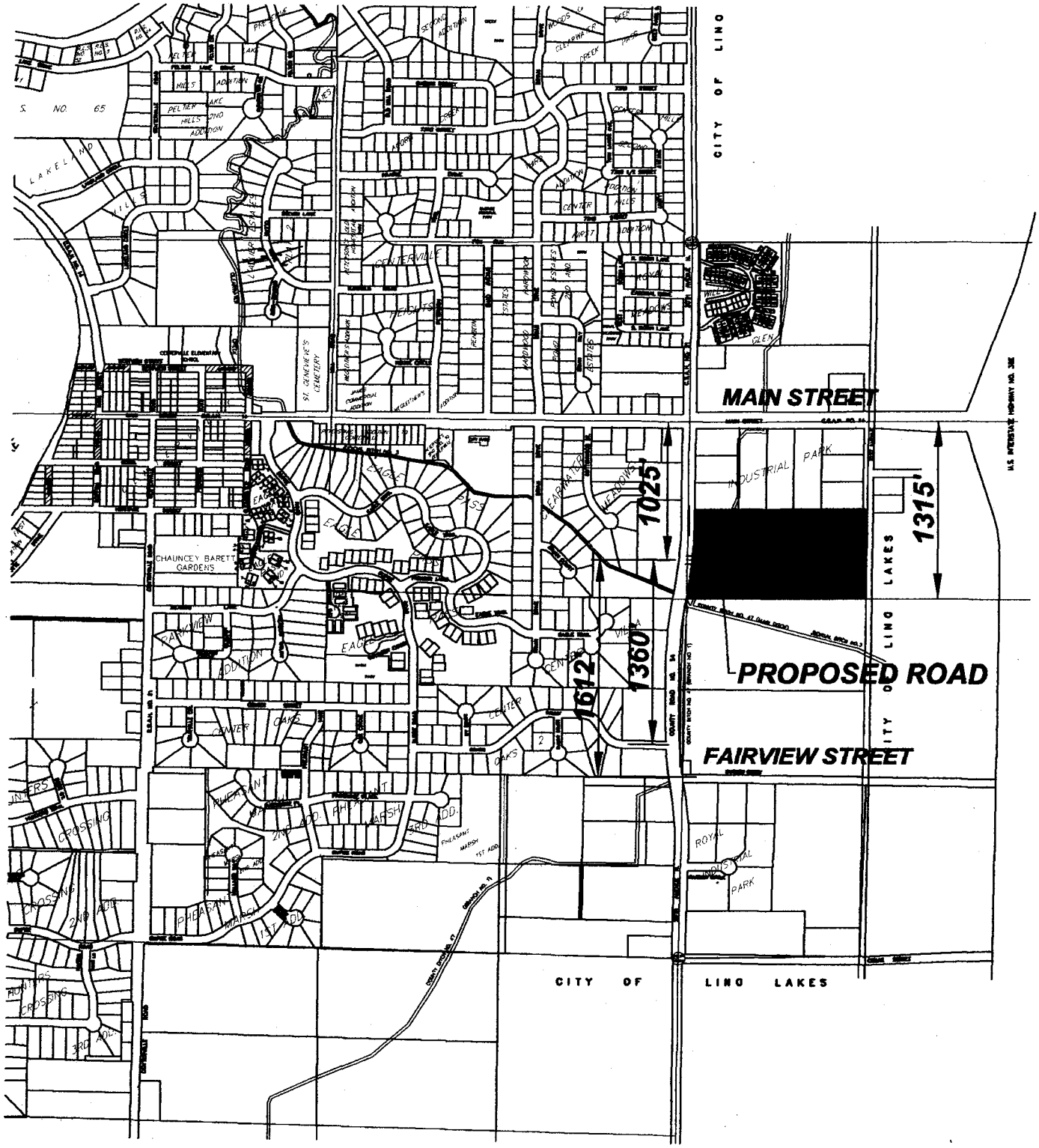
THE S 1/2-SW 1/4-NW 1/4, SECTION 24, T. 31 N., R. 22 W., ANOKA COUNTY, MINNESOTA

THE WETLANDS SHOWN HEREON WERE DELINEATED BY ANOKA CONSERVATION DISTRICT.
NOTE: THERE SHALL BE NO LOWEST FLOOR BELOW 904.8, NGVD-1929.

NOTE: THE 100-YEAR FLOOD PLAIN ELEVATION ACCORDING TO RICE CREEK WATERSHED DISTRICT IS 904.2, NGVD - 1929.

SURVEY PREPARED BY:
HULT & ASSOCIATES, INC.
LAND SURVEYORS
DATE: JANUARY 18, 1996

FIGURE 3



PROJECT LOCATION AND ROAD SPACING

CENTERVILLE, MINNESOTA FIGURE 1

INDUSTRIAL PARK STREET IMPROVEMENTS

61605143F02.DWG DATE: 11/14/05 COMM: .

Bonestroo Rosene Anderlik & Associates
Engineers & Architects

FIGURE 4

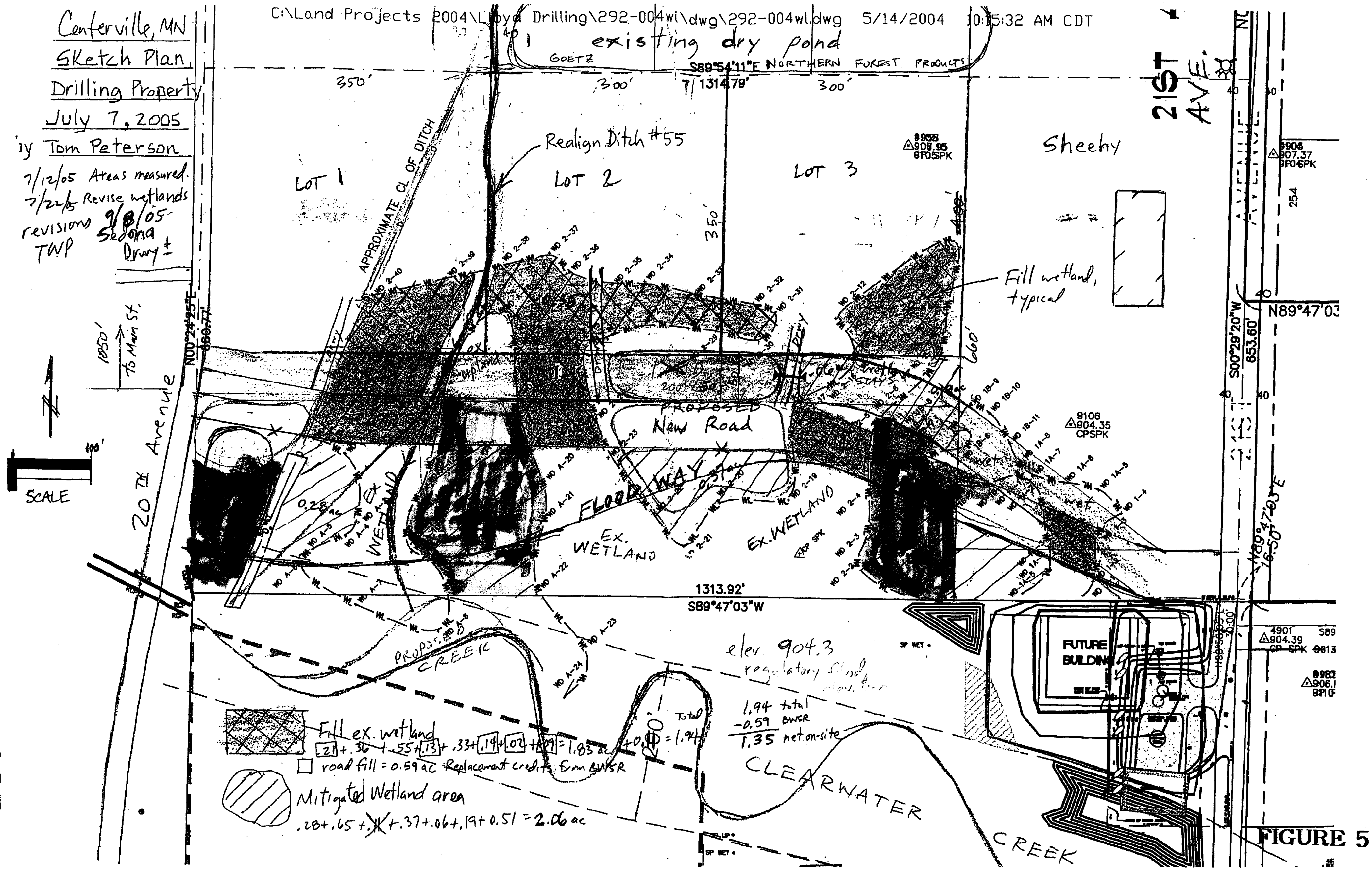
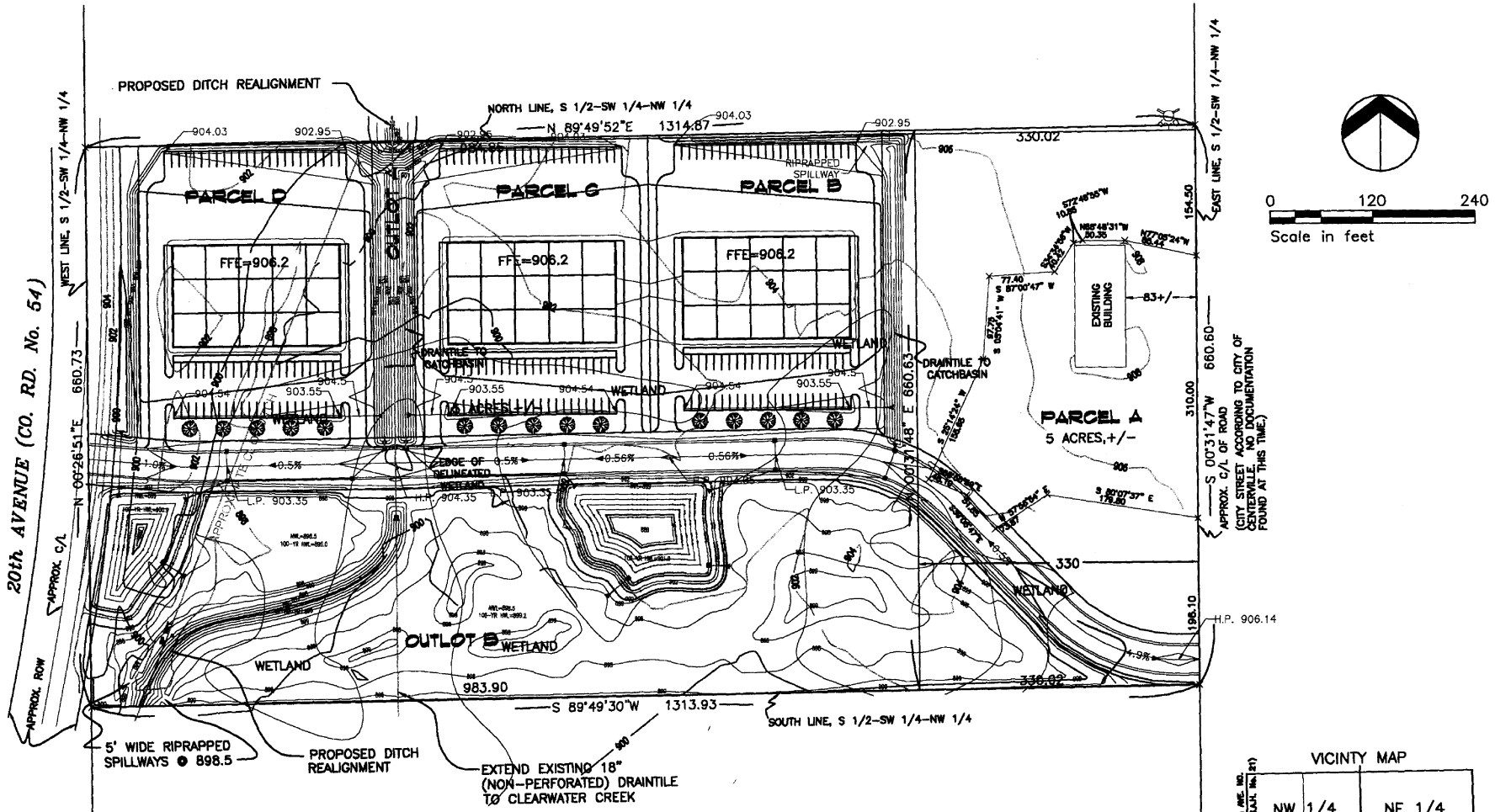
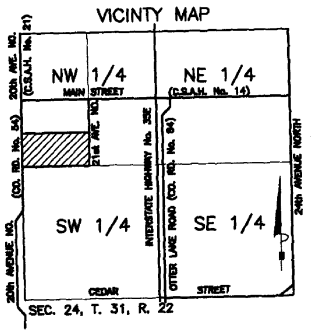

C:\Land Projects 2004\Lloyd Drilling\292-004wl\dwg\292-004wl.dwg 5/14/2004 10:15:32 AM CDT
Centerville, MN
Sketch Plan,
Drilling Property
July 7, 2005
by Tom Peterson
7/12/05 Areas measured
7/22/05 Revise wetlands
9/8/05 revisions TWP Sedona Drury
existing dry pond
GOETZ
S89°54'11"E NORTHERN FOREST PRODUCTS
1314.79'
350'
300'
300'
21ST AVE.
Realign Ditch #55
APPROXIMATE CL OF DITCH
LOT 1
LOT 2
LOT 3
Sheehy
350'
Fill wetland, typical
N89°47'03
S00°29'20"W
653.60'
N00°24'25"E
1850' To Main St.
20th Avenue
SCALE
100'
PROPOSED New Road
FLOOD WAY
0.28 ac
EX. WETLAND
Ex. WETLAND
Ex. WETLAND
9106
904.35
CPSPK
1313.92'
S89°47'03"W
N89°47'03"E
FUTURE BUILDING
4901
904.39
elev. 904.3
regulatory flood elevation
PROPOSED CREEK
1.94 total
-0.59 BWSR
1.35 net on-site
CLEARWATER CREEK
Fill ex. wetland
.21 + .36 + .55 + .13 + .33 + .14 + .02 + .09 = 1.83 ac + 0.11 = 1.94 Total
road fill = 0.59 ac Replacement credits from BWSR
Mitigated Wetland area
.28 + .65 + .11 + .37 + .06 + .19 + 0.51 = 2.06 ac

FIGURE 5





THE S 1/2-SW 1/4-NW 1/4, SECTION 24, T. 31 N., R. 22 W., ANOKA COUNTY, MINNESOTA

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SURVEY PREPARED BY:
HULT & ASSOCIATES, INC.
LAND SURVEYORS
DATE: JANUARY 18, 1996

FIGURE 6

CENTERVILLE INDUSTRIAL PARK CONNECTOR ROAD

Wetland Permit Application

Appendix A – Wetland Delineation Report

Lloyd Drilling Site

Centerville, Minnesota

Wetland Delineation Report

Prepared for
Lloyd Drilling

by
Kjolhaug Environmental Services Company, Inc.
(KES Project No. 2004-048)

June 29, 2005

Lloyd Drilling Site

Centerville, Minnesota

Wetland Delineation Report

I. INTRODUCTION

The Lloyd Drilling Site was examined on May 6, 2004 for the presence and extent of wetland. The site was located in the SW ¼ of the NW ¼ of Section 24, Township 31 North, Range 22 West, City of Centerville, Anoka County, Minnesota.

The 20-acre site was located between 20th Ave. South and 21st Ave. South, one-eighth of a mile south of County Road 14 and approximately one-fourth of a mile southwest from the junction of Interstate 35E and County Road 14 (**Figure 1**). The site was bordered by commercial development to the north and west, with undeveloped land bordering the site to the east, and cropland to the south.

At the time of the delineation the site consisted of upland meadow and wetlands. A ditch running from north to south through the west side of the site was connected to another ditch located off-site to the south, draining the site to the southwest (**Figure 2**).

II. METHODS

Wetlands were identified using Routine Determination methodology described in the *Corps of Engineers Wetlands Delineation Manual* (Waterways Experiment Station, 1987) as required by Section 404 of the Clean Water Act and the Minnesota Wetland Conservation Act. Atypical situations methodology was applied to cropped and ditched areas of the site.

Wetland boundaries were identified as the upper-most extent of wetlands, which met criteria for hydric soils, hydrophytic vegetation, and wetland hydrology. Wetland-upland boundaries were marked with pin flags and subsequently located using standard land survey methods. Kjolhaug Environmental Services Company reviewed surveyed wetland boundaries for accuracy.

Soils, vegetation, and hydrology were documented at representative locations along the wetland-upland boundary. Plant species dominance was estimated based on the percent aerial or basal coverage visually estimated within a 30-foot radius for the tree and shrub layers and a 5-foot radius for the herbaceous layer within the community type being sampled.

Soils were characterized to a minimum depth of 18-20 inches utilizing Munsell Soil Color Charts and standard soil texturing methodology.

Plants were identified using standard regional plant keys. Taxonomy was based on the *Manual of Vascular Plants of Northeastern United States and Adjacent Canada, Ed. 2* (New York Botanical Garden, 1991). Indicator status of plant species was taken from the *National List of Plant Species That Occur in Wetlands: 1988 Minnesota* (U.S. Fish & Wildlife Service, 1988).

III. RESULTS

Review of Soils, NWI, DNR and FSA Information

The ***National Wetland Inventory Map (NWI)*** (Centerville Quadrangle, U.S. Fish & Wildlife Service, 1991) showed one (1) PEMF wetland, three (3) PEMC wetlands, and one (1) PEMCd wetland on the site (**Figure 3**).

The ***Soil Survey of Anoka County, Minnesota*** (Sheet 60, USDA, 1977) showed the following soil types on the site: Cathro muck (Cb), Glencoe loam (Gc), Nessel fine sandy loam (Ne), and Webster loam (Wb) (**Figure 4**). Cathro, Glencoe and Webster are hydric soils indicative of wetland conditions when undrained. A perennial drainageway indicated on the western side of the site connected to another perennial drainage way indicated off-site to the south.

The ***DNR Protected Waters Map, Anoka County*** (Sheet 1 of 2, Minnesota DNR, 1984) did not indicate any DNR Protected Waterways, Waters, or Wetlands on the site or near site boundaries (**Figure 5**). One public ditch that flowed to the south was indicated on the western side of the site.

Wetland Determinations and Delineations

Potential wetlands were evaluated in greater detail during field observations on May 6, 2004. Two (2) wetlands were identified and delineated on the subject site (**Appendix A**). Corresponding data forms are included in **Appendix B**. The following description of the wetlands and surrounding upland reflects field conditions observed at the time of the delineation. At that time, vegetation was actively growing and temperatures were in the 60's. Hydrology was assumed to be typical of spring.

Wetland 1 was a Type 2 (PEMB/A) depression located in the southeastern corner of the site. Dominant vegetation consisted of reed canary grass and sedge with lesser amounts of willow, red-osier dogwood, quaking aspen, and common buckthorn. Soils observed below the wetland boundary were mapped as Webster by the soil survey and were black mucky fine sandy loam to 24 inches, underlain by distinctly mottled, very dark gray fine sandy loam to 30 inches. Free water was observed 12 inches below the soil surface. Secondary indicators of wetland hydrology included water-stained leaves, mapped hydric soil, the FAC-Neutral Test and topographic position.

Adjacent upland was dominated by cottonwood, quaking aspen, common buckthorn, burdock, dandelion, giant goldenrod, wild strawberry, gray dogwood and honeysuckle. Upland soils were mapped as Webster and were black fine sandy loam to 26 inches, underlain by faintly mottled, light olive brown sandy clay loam to 32 inches. No free water was observed within 24 inches of

the soil surface. Other than mapped hydric soil, no secondary indicators of hydrology were observed.

The delineated boundary followed a slight change in plant communities and topography. Wetland 1 corresponded to two NWI-mapped PEMC wetlands, and an area of mapped hydric soil (Webster) by the soil survey.

Wetland 2 was a partially drained Type 2 (PEMCd/Ad/Bdx) wetland located between the ditch on the west side of the site and Wetland 1. Dominant vegetation consisted of reed canary grass and sedge with lesser amounts of cattail, willow, quaking aspen, spirea, red osier dogwood and horsetail. Soils observed below the wetland boundary were mapped as Cathro by the soil survey and were prominently mottled, very dark brown silt to 10 inches, underlain by prominently mottled, dark gray fine sandy silt to 24 inches depth. Soils were saturated at the surface and free water was observed 6 inches below the soil surface. Secondary indicators of wetland hydrology included mapped hydric soil, the FAC-Neutral Test, and topographic position.

Adjacent upland was old pasture dominated by Canada goldenrod, giant goldenrod, smooth brome, cottonwood, quaking aspen, common dandelion, Kentucky bluegrass and Canada mayflower. Upland soils were mapped as Cathro and were grayish brown fine sand to sand to 20 inches, underlain by prominently mottled, grayish brown fine sand to 26 inches depth. Free water was observed 22 inches below the soil surface. Other than mapped hydric soil, no secondary indicators of hydrology were observed.

The delineated boundary followed a change in plant communities and a slight change in topography. Wetland 2 corresponded to an NWI-mapped PEMCd wetland, and areas of mapped hydric soil (Cathro and Glencoe) by the soil survey. The wetland showed evidence of historical excavations as indicated by several small ditches observed within the wetland and areas of wetland that were without topsoil.

IV. SUMMARY

- The Lloyd Drilling Site was inspected on May 6, 2004 for the presence and extent of wetland.
- The NWI-map showed one (1) PEMF wetland, three (3) PEMC wetlands, and one (1) PEMCd wetland on the site.
- Cathro, Glencoe and Webster were the hydric soils indicated for this site.
- No DNR Protected Waterways, Waters, or Wetlands were indicated on the site.
- Two (2) Type 2 wetlands were delineated on the subject property.

V. CERTIFICATION OF DELINEATION

The procedures utilized in the described delineation are based on the COE 1987 Wetland Delineation Manual as required by Section 404 of the Clean Water Act and the Minnesota Wetland Conservation Act. Both the delineation and report were conducted in compliance with regulatory standards in place at the time the work was completed.

All site boundaries indicated on figures within this report are approximate and do not constitute an official survey product.

Delineation Completed by: Kelly Dlouhy, Wetland Ecologist
Ken Powell, PWS No. 1373

Report Completed by: Melissa Lauterbach-Barrett

Reviewed by:_____ Date: _____

Mark Kjolhaug, Professional Wetland Scientist No. 0000845

Lloyd Drilling Site

Wetland Delineation Report

Figures:

- Figure 1 – Site Location Map
- Figure 2 – Aerial Photograph
- Figure 3 – NWI Map
- Figure 4 – Soil Survey Map
- Figure 5 – DNR Protected Waters Map

Note: Site boundaries on this figure are approximate and do not constitute an official survey product.

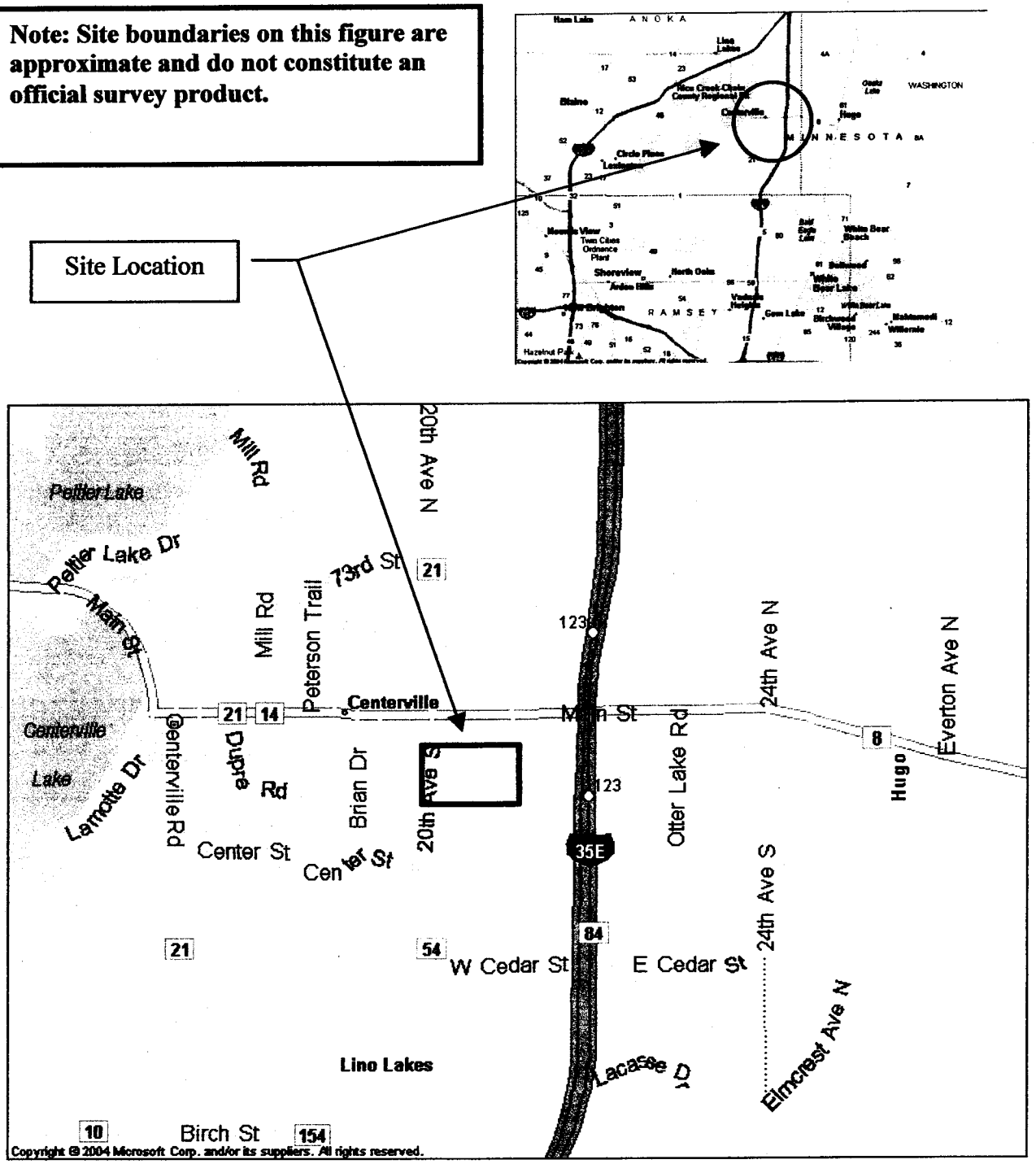


Figure 1 – Site Location Map

Lloyd Drilling Site (KES No. 2004-048)
Centerville, Minnesota

KJOLHAUG ENVIRONMENTAL SERVICES COMPANY

↑N **No Scale**

Note: Site boundaries on this figure are approximate and do not constitute an official survey product.

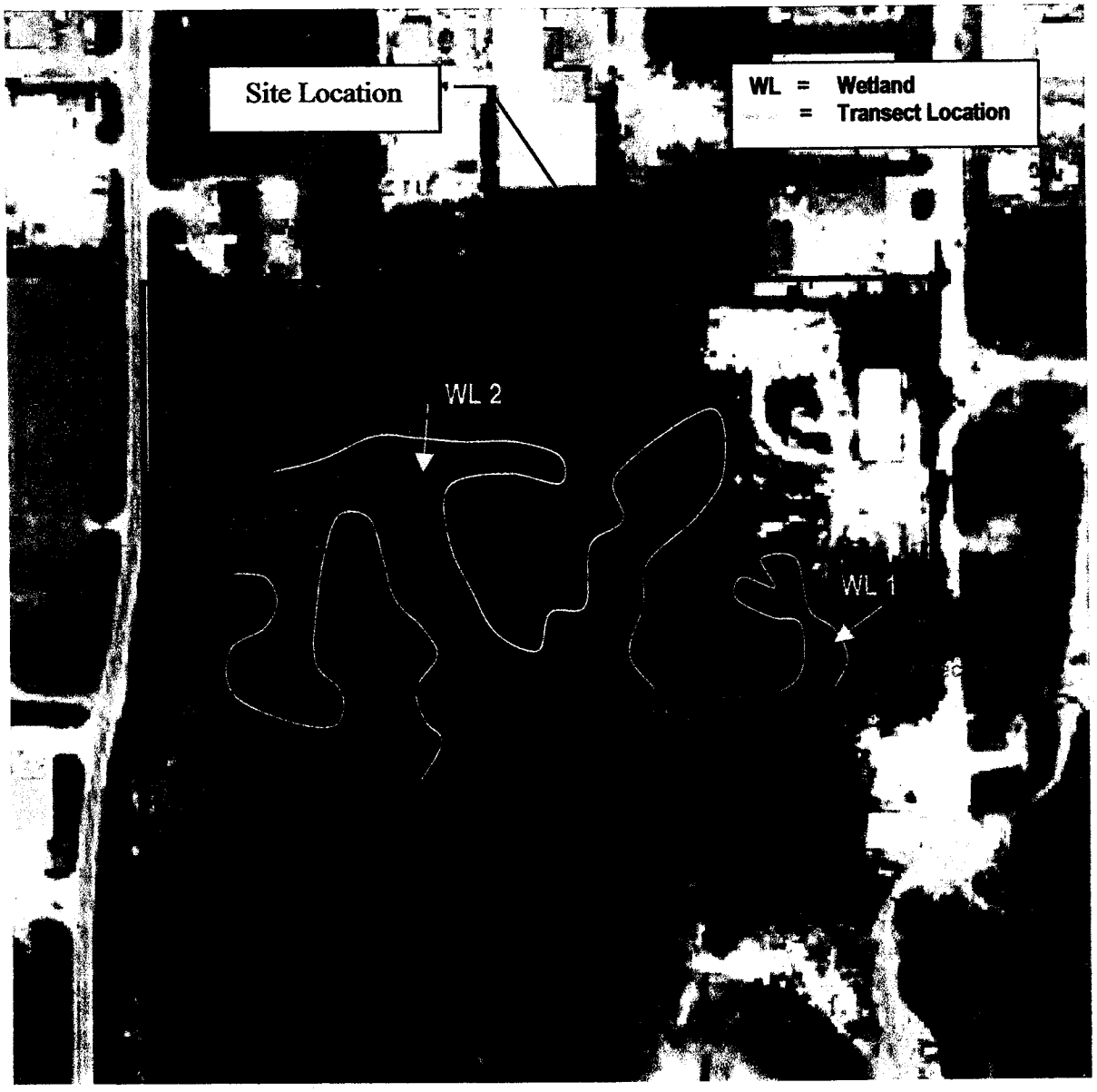


Figure 2 – 2003 Aerial Photograph

Lloyd Drilling Site (KES No. 2004-048)
Centerville, Minnesota

KJOLHAUG ENVIRONMENTAL SERVICES COMPANY

N **1 inch ~ 300 feet**

Note: Site boundaries on this figure are approximate and do not constitute an official survey product.

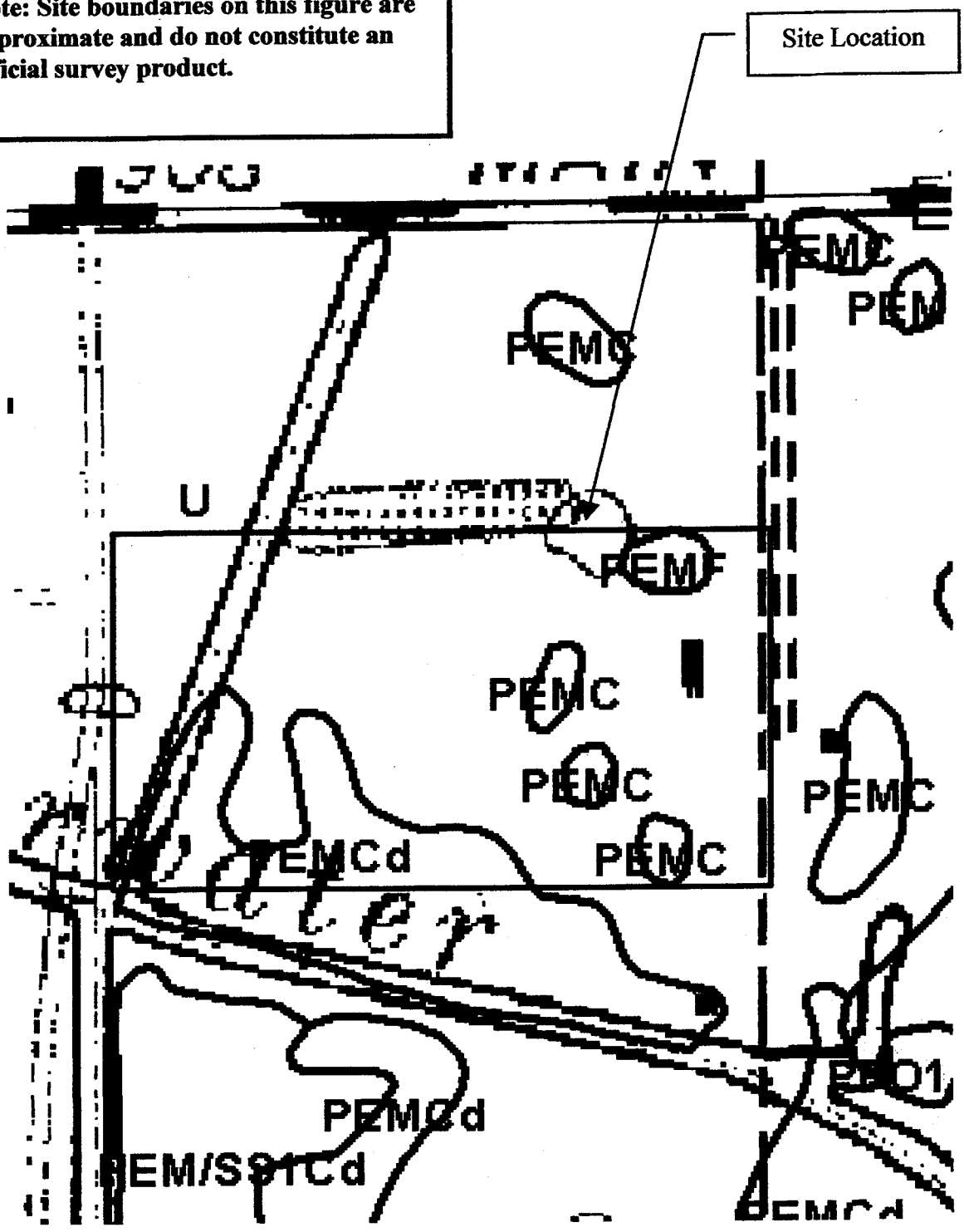


Figure 3 – NWI Map

Lloyd Drilling Site (KES No. 2004-048)
Centerville, Minnesota

KJOLHAUG ENVIRONMENTAL SERVICES COMPANY

N

1 inch ~ 325 feet

Note: Site boundaries on this figure are approximate and do not constitute an official survey product.

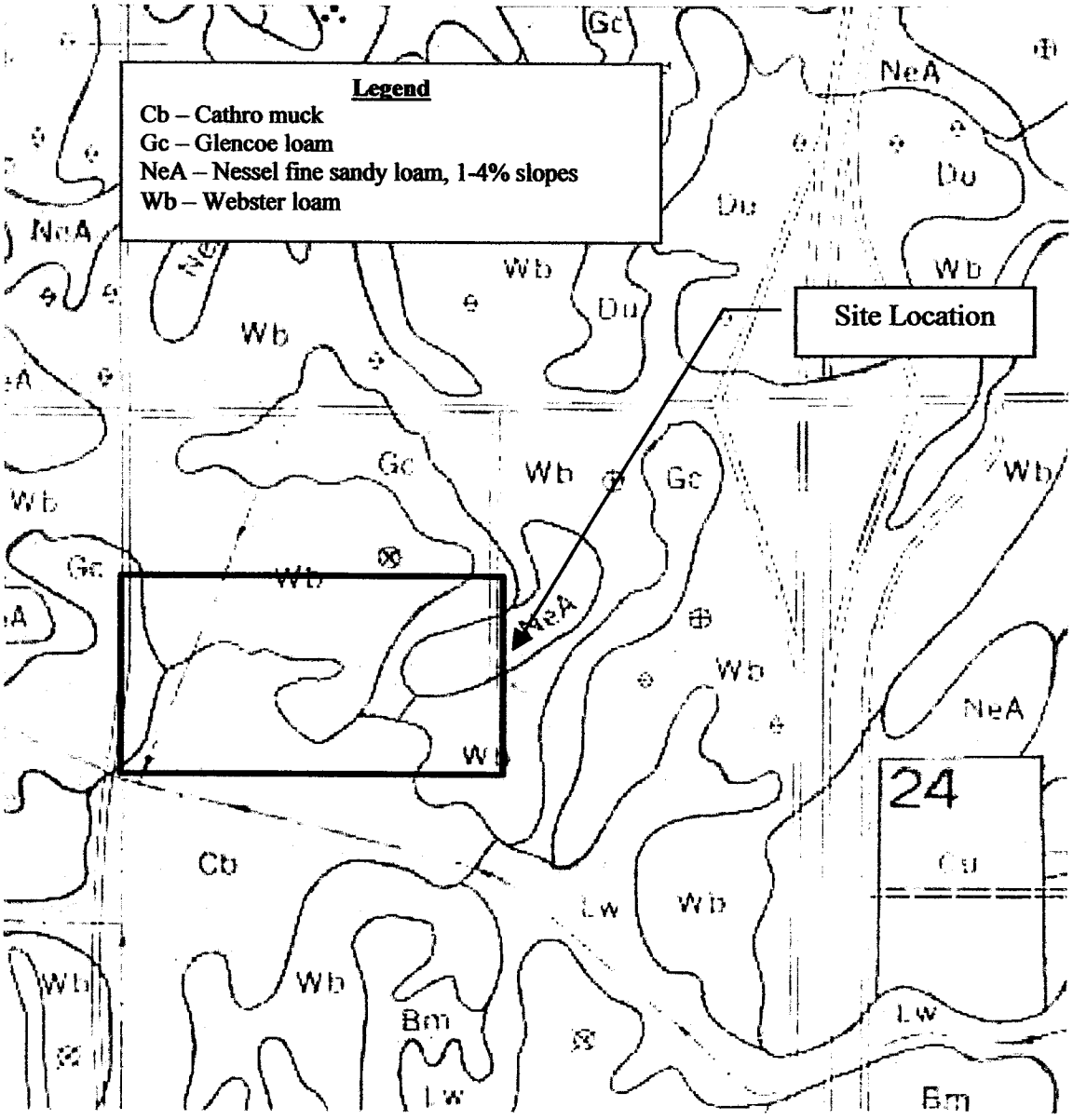


Figure 4 – Soil Survey Map

Lloyd Drilling Site (KES No. 2004-048)
Centerville, Minnesota

KJOLHAUG ENVIRONMENTAL SERVICES COMPANY

N **1 inch ~ 650 feet**

Note: Site boundaries on this figure are approximate and do not constitute an official survey product.

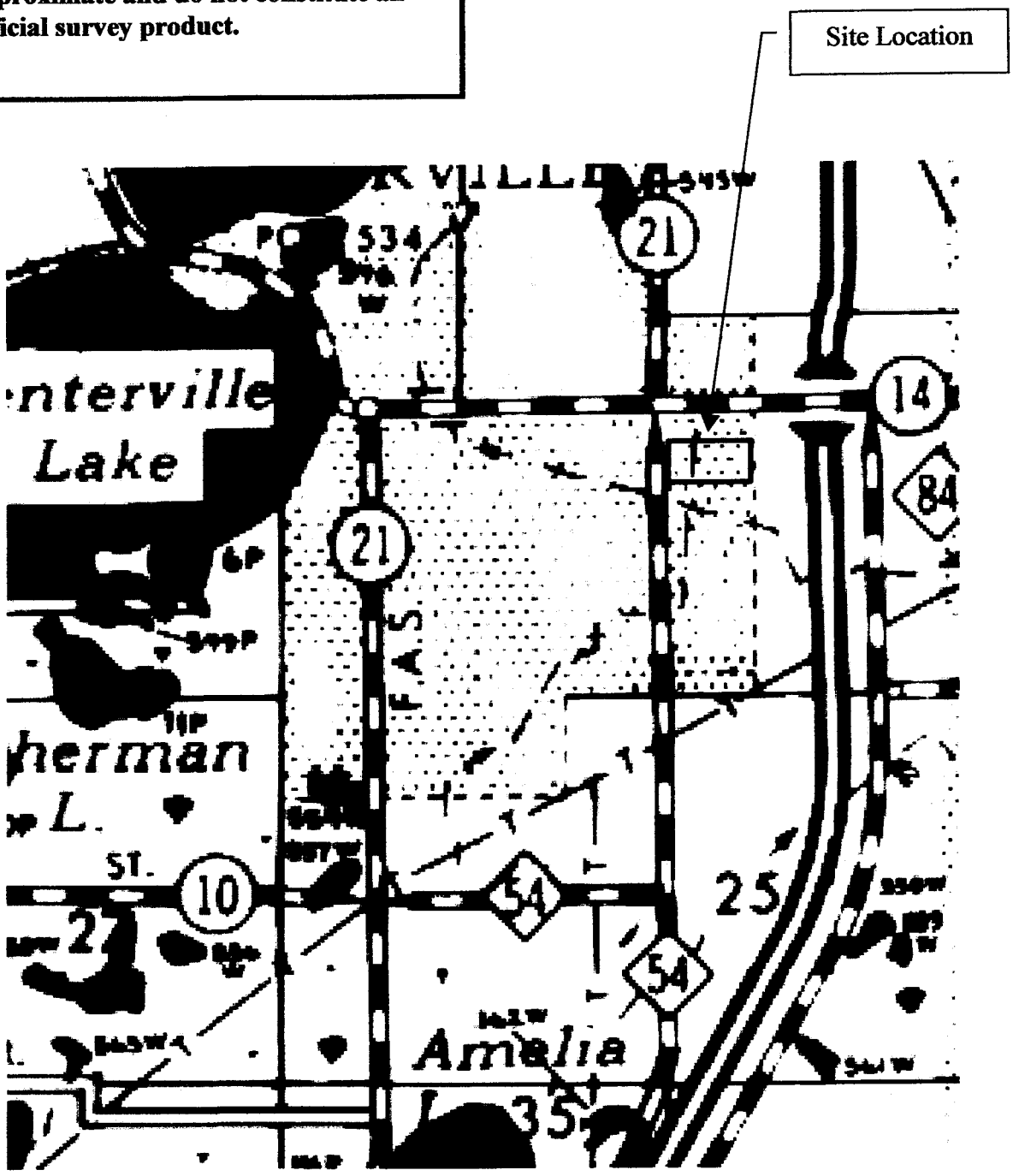


Figure 5 – DNR Protected Waters Map

Lloyd Drilling Site (KES No. 2004-048)
Centerville, Minnesota

KJOLHAUG ENVIRONMENTAL SERVICES COMPANY

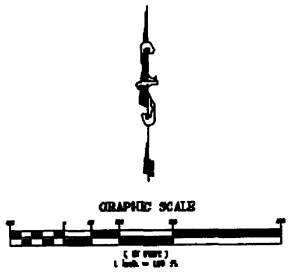
N **1 inch ~ 2240 feet**

Lloyd Drilling Site

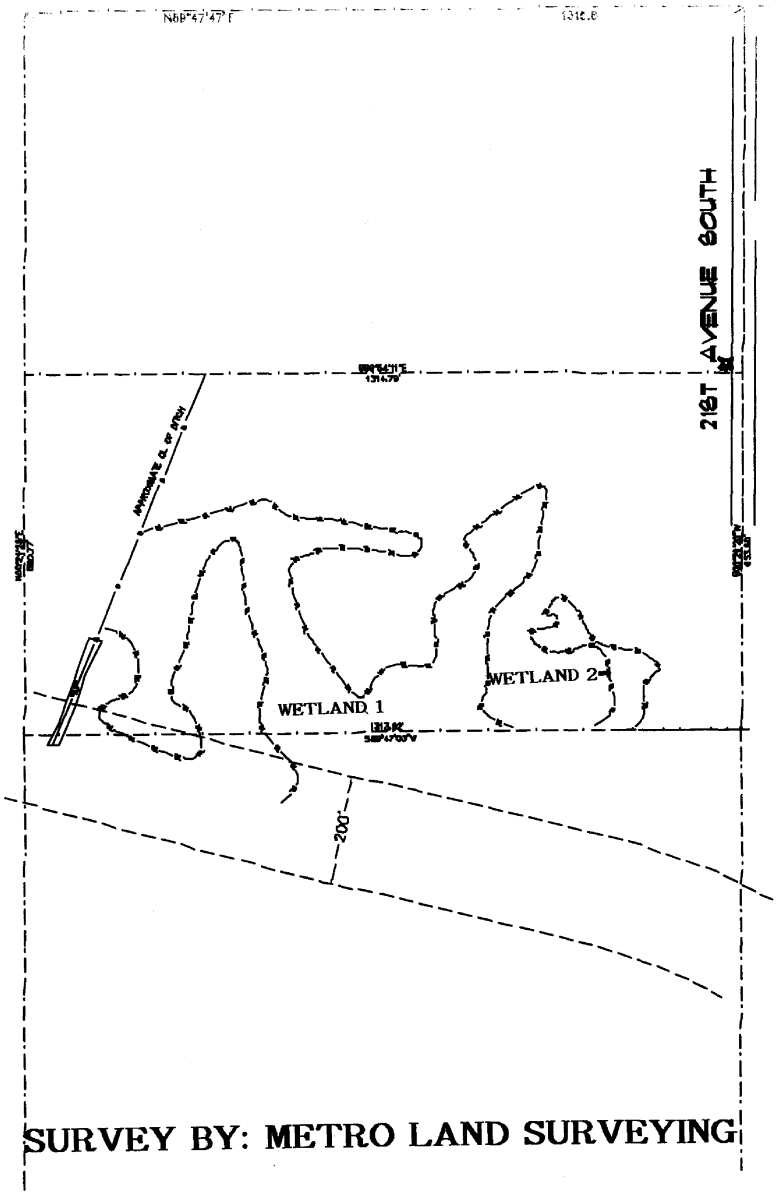
Wetland Delineation Report

Appendix A: Survey Drawing

LLOYD DRILLING SITE
CENTERVILLE,MN



SCALE: 1 INCH ~ 225 FEET



SURVEY BY: METRO LAND SURVEYING

Lloyd Drilling Site

Wetland Delineation Report

Appendix B: Data Forms

KJOLHAUG ENVIRONMENTAL SERVICES COMPANY

Project/Site:	Lloyd Drilling	Date:	5/6/04
Investigator(s):	Ken Powell		
Basin/Area ID:	Wetland 1	Sample Pt. ID:	1-1

SOILS

SAMPLE POINT- ✓ Wet side ___ Up side ___ N/A Mapped Soil Type: Webster

Depth (in.)	Matrix Color	Mottle Colors	Mottle abund./contrast	Texture, Structure, etc.
0-24	N 2/0	-	-	mucky fsl
24-30	10YR 3/1	7.5YR 4/6	comm/dist	fsl

Field Indicators of Hydric Soils (Midwest Region) *USDA, March 1998.* (A = all soils, S = sandy soils, F = loamy & clayey soils)

___ A1. Histosol	___ A9,10. 1-2 cm Muck	___ S6. Stripped Matrix	✓ F5. Thick Dark Surface
___ A2. Histic Epipedon	✓ S1. Sandy Mucky Material	___ F1. Loamy Mucky Material	___ F6. Redox Dark Surface
___ A3. Black Histic	✓ S3. Mucky Peat/Peat	___ F2. Loamy Gleyed Matrix	___ F7. Depleted Dark Surface
___ A4. Hydrogen Sulfide	___ S4. Sandy Gleyed Matrix	___ F3. Depleted Matrix	___ F8. Redox Depressions
___ A5. Stratified Layers	___ S5. Sandy Redox	___ F4. Depleted Below Dark Surface	

Hydric Soil? ✓ Yes ___ No ___ Undetermined **Remarks:**

SAMPLE POINT- ___ Wet side ✓ Up side ___ N/A Mapped Soil Type: Webster

Depth (in.)	Matrix Color	Mottle Colors	Mottle abund./contrast	Texture, Structure, etc.
0-26	N 2/0	-	-	fsl
26-32	2.5Y 5/3	2.5Y 5/4	comm/faint	sandy clay loam

Field Indicators of Hydric Soils (Midwest Region) *USDA, March 1998.* (A = all soils, S = sandy soils, F = loamy & clayey soils)

___ A1. Histosol	___ A9,10. 1-2 cm Muck	___ S6. Stripped Matrix	___ F5. Thick Dark Surface
___ A2. Histic Epipedon	___ S1. Sandy Mucky Material	___ F1. Loamy Mucky Material	___ F6. Redox Dark Surface
___ A3. Black Histic	___ S3. Mucky Peat/Peat	___ F2. Loamy Gleyed Matrix	___ F7. Depleted Dark Surface
___ A4. Hydrogen Sulfide	___ S4. Sandy Gleyed Matrix	___ F3. Depleted Matrix	___ F8. Redox Depressions
___ A5. Stratified Layers	___ S5. Sandy Redox	✓ F4. Depleted Below Dark Surface	

Hydric Soil? ✓ Yes ___ No ___ Undetermined **Remarks:**

HYDROLOGY

SAMPLE POINT- ✓ Wet side ___ Up side ___ N/A

Primary Hydrology Indicators	Secondary Hydrology Indicators (2 req.)	Wetland Hydrology?
___ Inundated, Depth ___ in.	___ Oxidized Root Channels	✓ Yes
___ Saturated Soil, Depth ___ in.	✓ Water-Stained Leaves	___ No
✓ Water in borehole, Depth 12 in.	✓ Mapped Hydric Soil, Depression	___ Assumed - Explain:
___ Water Marks, Height ___ in.	✓ FAC-Neutral Test	
___ Drift Lines	✓ Topographic Position	___ Undetermined - Explain:
___ Sediment Deposits	___ Other - Explain:	
___ Drainage Patterns		

SAMPLE POINT- ___ Wet side ✓ Up side ___ N/A

Primary Hydrology Indicators	Secondary Hydrology Indicators (2 req.)	Wetland Hydrology?
___ Inundated, Depth ___ in.	___ Oxidized Root Channels	___ Yes
___ Saturated Soil, Depth ___ in.	___ Water-Stained Leaves	✓ No
___ Water in borehole, Depth ___ in.	✓ Mapped Hydric Soil, Depression	___ Assumed - Explain:
___ Water Marks, Height ___ in.	___ FAC-Neutral Test	
___ Drift Lines	___ Topographic Position	___ Undetermined - Explain:
___ Sediment Deposits	___ Other - Explain	No water at 32"
___ Drainage Patterns		

26105 Wild Rose Lane, Shorewood, Minnesota 55331, Phone: 952-401-3757, Fax: 952-401-3798

Project/Site Lloyd Drilling Sample Point ID 1-1

VEGETATION

SAMPLE POINT- ✓ Wet side ____ Up side ____ N/A

Species	Stratum	% Cover	Ind. Status
Phalaris arundinacea	(H) V S T	60	FACW+
Carex spp.	(H) V S T	20	NI+
Populus tremula	H V (S) T	30	FAC
Solidago gigantea	(H) V S T	10	FACW
Cornus stolonifera	H V (S) T	5	FACW
	H V S T		
	H V S T		
	H V S T		
	H V S T		
	H V S T		
Remarks: *Not id'd to species, assum FAC a wetter	% Dominants (>20% Cover) FAC or Wetter:		100

SAMPLE POINT- ____ Wet side ✓ Up side ____ N/A

Species	Stratum	% Cover	Ind. Status
Populus tremula	H V S (T)	80	FAC
Prunus americana	H V (S) T	60	UPL
Acer negundo	H V (S) T	5	FACW-
Arctium minus	(H) V S T	5	NI
Solidago gigantea	(H) V S T	25	FACW
Toxicodendron radicans	H (V) S T	5	FAC+
Taraxacum officinale	(H) V S T	5	FACU
	H V S T		
	H V S T		
	H V S T		
Remarks:	% Dominants (>20% Cover) FAC or Wetter:		50

WETLAND DETERMINATION

SAMPLE POINT- ✓ Wet side ____ Up side ____ N/A

Hydrophytic Vegetation Present?	✓ Yes	____ No	Does an Atypical Situation Exist? ____ Yes
Wetland Hydrology Present?	✓ Yes	____ No	Does an Atypical Situation Exist? ____ Yes
Hydric Soils Present?	✓ Yes	____ No	Does an Atypical Situation Exist? ____ Yes
Is the area a wetland?	✓ Yes	____ No	Remarks:
Distance from Wetland Edge	5 ft.	____ N/A	

SAMPLE POINT- ____ Wet side ✓ Up side ____ N/A

Hydrophytic Vegetation Present?	✓ Yes	____ No	Does an Atypical Situation Exist? ____ Yes
Wetland Hydrology Present?	____ Yes	✓ No	Does an Atypical Situation Exist? ____ Yes
Hydric Soils Present?	✓ Yes	____ No	Does an Atypical Situation Exist? ____ Yes
Is the area a wetland?	____ Yes	✓ No	Remarks:
Distance from Wetland Edge	10 ft.	____ N/A	

COMMUNITY SUMMARY

Wetland Community Type: Type 2 (PEMB/A)	Upland Community Type: Wooded
Overall Dominant Vegetation: reed, sedge	Overall Dominant Vegetation: cottonwood, aspen
Remarks:	Remarks:

KJOLHAUG ENVIRONMENTAL SERVICES COMPANY

Project/Site: LLOYD DRILLING — KOCHIA
Investigator(s):
Basin/Area ID: WETLAND 2
Date: 5/6/04
Sample Pt. ID: 2-1

SOILS

SAMPLE POINT- ✓ Wet side ___ Up side ___ N/A Mapped Soil Type: Cathro

Depth (in.)	Matrix Color	Mottle Colors	Mottle abund./contrast	Texture, Structure, etc.
0-10	10YR 2/2	10YR 4/6	ABUND, PROM, CRSE	SI
12-24+	10YR 4/1	10YR 4/6	COMM PROM, CRSE	FSSI

Field Indicators of Hydric Soils (Midwest Region) *USDA, March 1998.* (A = all soils, S = sandy soils, F = loamy & clayey soils)

___ A1. Histosol
___ A2. Histic Epipedon
___ A3. Black Histic
___ A4. Hydrogen Sulfide
___ A5. Stratified Layers
___ A9,10. 1-2 cm Muck
___ S1. Sandy Mucky Material
___ S3. Mucky Peat/Peat
___ S4. Sandy Gleyed Matrix
___ S5. Sandy Redox
___ S6. Stripped Matrix
___ F1. Loamy Mucky Material
___ F2. Loamy Gleyed Matrix
___ F3. Depleted Matrix
___ F4. Depleted Below Dark Surface
___ F5. Thick Dark Surface
✓ F6. Redox Dark Surface
___ F7. Depleted Dark Surface
___ F8. Redox Depressions

Hydric Soil? ✓ Yes ___ No ___ Undetermined Remarks:

SAMPLE POINT- ___ Wet side ✓ Up side ___ N/A Mapped Soil Type: Cathro

Depth (in.)	Matrix Color	Mottle Colors	Mottle abund./contrast	Texture, Structure, etc.
0-20	2.5Y 5/2	—	—	FS + S
20-24+	2.5Y 5/2	10YR 4/6	COMM, PROM, MED	SI, FS

Field Indicators of Hydric Soils (Midwest Region) *USDA, March 1998.* (A = all soils, S = sandy soils, F = loamy & clayey soils)

___ A1. Histosol
___ A2. Histic Epipedon
___ A3. Black Histic
___ A4. Hydrogen Sulfide
___ A5. Stratified Layers
___ A9,10. 1-2 cm Muck
___ S1. Sandy Mucky Material
___ S3. Mucky Peat/Peat
___ S4. Sandy Gleyed Matrix
___ S5. Sandy Redox
___ S6. Stripped Matrix
___ F1. Loamy Mucky Material
___ F2. Loamy Gleyed Matrix
___ F3. Depleted Matrix
___ F4. Depleted Below Dark Surface
___ F5. Thick Dark Surface
___ F6. Redox Dark Surface
___ F7. Depleted Dark Surface
___ F8. Redox Depressions

Hydric Soil? ___ Yes ✓ No ___ Undetermined Remarks:

HYDROLOGY

SAMPLE POINT- ✓ Wet side ___ Up side ___ N/A

Primary Hydrology Indicators	Secondary Hydrology Indicators (2 req.)	Wetland Hydrology?
___ Inundated, Depth ___ in.	___ Oxidized Root Channels	✓ Yes
✓ Saturated Soil, Depth 0 in.	___ Water-Stained Leaves	___ No
✓ Water in borehole, Depth 6 in.	✓ Mapped Hydric Soil, Depression	___ Assumed - Explain:
___ Water Marks, Height ___ in.	✓ FAC-Neutral Test	
___ Drift Lines	✓ Topographic Position	___ Undetermined - Explain:
___ Sediment Deposits	___ Other - Explain:	
___ Drainage Patterns		

SAMPLE POINT- ___ Wet side ✓ Up side ___ N/A

Primary Hydrology Indicators	Secondary Hydrology Indicators (2 req.)	Wetland Hydrology?
___ Inundated, Depth ___ in.	___ Oxidized Root Channels	___ Yes
___ Saturated Soil, Depth ___ in.	___ Water-Stained Leaves	✓ No
✓ Water in borehole, Depth 22 in.	✓ Mapped Hydric Soil, Depression	___ Assumed - Explain:
___ Water Marks, Height ___ in.	___ FAC-Neutral Test	
___ Drift Lines	___ Topographic Position	___ Undetermined - Explain:
___ Sediment Deposits	___ Other - Explain	
___ Drainage Patterns		

WETLAND 2

26105 Wild Rose Lane, Shorewood, Minnesota 55331, Phone: 952-401-8757, Fax: 952-401-8798

Project/Site LLOYD DRILLING Sample Point ID 2-1

VEGETATION

SAMPLE POINT- ✓ Wet side ____ Up side ____ N/A

Species	Stratum	% Cover	Ind. Status
CAREX spp.	(H) V S T	25	NI*
Phalaris arundinacea	(H) V S T	75	FACW+
Salix spp.	H V (S) T	20	NI*
	H V S T		
	H V S T		
	H V S T		
	H V S T		
	H V S T		
	H V S T		
	H V S T		

Remarks: *Not id'd to species, assume FAC or wetter

% Dominants (>20% Cover) FAC or Wetter: 100

SAMPLE POINT- ____ Wet side ✓ Up side ____ N/A

Species	Stratum	% Cover	Ind. Status
Equisetum spp	(H) V S T	30	NI*
Poa pratensis	(H) V S T	50	FAC
Achilleum millefolium	(H) V S T	10	FACU
Aster spp	(H) V S T	20	NI*
	H V S T		
	H V S T		
	H V S T		
	H V S T		
	H V S T		
	H V S T		

Remarks: Not id'd to species, ASSUME FAC or drier

% Dominants (>20% Cover) FAC or Wetter: 0

WETLAND DETERMINATION

SAMPLE POINT- ✓ Wet side ____ Up side ____ N/A

Hydrophytic Vegetation Present?	✓ Yes	____ No	Does an Atypical Situation Exist? ____ Yes
Wetland Hydrology Present?	✓ Yes	____ No	Does an Atypical Situation Exist? ____ Yes
Hydric Soils Present?	✓ Yes	____ No	Does an Atypical Situation Exist? ____ Yes
Is the area a wetland?	✓ Yes	____ No	Remarks:
Distance from Wetland Edge	5 ft.	____ N/A	

SAMPLE POINT- ____ Wet side ✓ Up side ____ N/A

Hydrophytic Vegetation Present?	____ Yes	✓ No	Does an Atypical Situation Exist? ____ Yes
Wetland Hydrology Present?	____ Yes	✓ No	Does an Atypical Situation Exist? ____ Yes
Hydric Soils Present?	____ Yes	✓ No	Does an Atypical Situation Exist? ____ Yes
Is the area a wetland?	____ Yes	✓ No	Remarks:
Distance from Wetland Edge	10 ft.	____ N/A	

COMMUNITY SUMMARY

Wetland Community Type: 2 PEMC/Ad/Bdx	Upland Community Type: disturbed meadow
Overall Dominant Vegetation: RCG, CATTAIL, SEDGE	Overall Dominant Vegetation: KBG, F. rubra, BROM, AGR
Remarks:	Remarks:

CENTERVILLE INDUSTRIAL PARK CONNECTOR ROAD

Wetland Permit Application

Appendix B – Combined Project Application Forms

MINNESOTA LOCAL/STATE/FEDERAL APPLICATION FORMS FOR WATER/WETLAND PROJECTS

LOCAL AND STATE:

Application for Local Government Unit Approval Pursuant to Minnesota Wetlands Conservation Act (WCA)
Application for Minnesota Department of Natural Resources permit to Work in public Waters
Application for Minnesota Pollution Control Agency Clean Water Act (CWA) Section 401 Certification

FEDERAL:

Application for Department of the Army Permit (33 CFR 325)

Use these application forms to apply to 1) the appropriate Local Government Unit (**LGU**), 2) the Minnesota Department of Natural Resources (**DNR**), and 3) the U.S. Army Corps of Engineers (**COE**) for authorization of **any proposed water/wetland project affecting lakes, rivers, streams or wetlands** that may fall within the jurisdiction of any (or all of those three agencies. If 401 certification is required from the Minnesota Pollution Control Agency (**MPCA**), the COE will forward these application forms to the MPCA for processing. You **do not** need to send this application to the MPCA. This application packet includes the following:

■**PART 1: BASIC APPLICATION** must be filled out by all applicants (pages 1-3, plus requested attachments).

■**APPLICATION FOR DEPARTMENT OF THE ARMY PERMIT** (page 4) must also be completed (non-shaded blocks only), signed and submitted by the applicant or agent, along with Part 1, to complete the Federal (U.S. Army Corps of Engineers) component of the application process using these forms.

■**PART 2: REPLACEMENT PLAN SUPPLEMENT** must be filled out by applicants who need to develop a replacement plan for wetland mitigation (pages 5-8, plus requested attachments).

■**INSTRUCTIONS** (Instructions 1-4) are provided to assist with completion and mailing of the application.

Before beginning work on your project, you must receive all required approvals from your LGU, the DNR and the U.S. Army Corps of Engineers (COE). If you have not received a replay after 45 days, or if you wish to confirm the status of your application at any time, contact the agencies directly (see Instructions, page 4). **Proceeding with work before all required authorizations are obtained may result in fines or other penalties.**

If you have questions or need assistance with filling out these forms, contact your local Soil and Water Conservation District (SWCD) office, your LGU, your regional DNR office, or your COE regulatory field office (see Instructions, page 4).

NOTE 1: If you believe that your project may be subject to Watershed District regulation, local Planning and Zoning jurisdiction, or any other locally implemented or enacted controls besides those of your LGU, contact the appropriate office(s) directly ***in addition to your* LGU, the DNR and the COE.**

NOTE 2: If you are a Federal Farm Program participant, and if your project affects a wetland or water body on agricultural land, your eligibility for USDA benefits may be affected. **In addition to your LGU, the DNR and the COE,** contact your local Natural Resources Conservation Service (NRCS) office to request and complete the appropriate form before initiating any activity.

A QUICK LOOK AT THE PERMIT APPLICATION PROCESS

1. Send copies of these completed application forms to your LGU, your regional DNR office, and your COE regulatory field office.

2. Any of the agencies may make initial Contact with you to 1) inform you that it has no Jurisdiction over your project; b) request additional Information needed; or c) inform you of applicable fees.

3. When your application is considered complete and appropriate fees have been received (if requested), your application will be distributed for appropriate agency review and public comments.

4. When the review process is complete, your application will either be *approved, approved with changes or conditions, withdrawn,* or *denied.* You will be informed of the decision.

5. For information about laws, rules and regulations that direct this process, the website www.revisor.leg.state.mn.us includes complete State of Minnesota waters and wetlands laws and rules, and the website www.mvp.usace.army.mil provides information on U.S. Army Corps of Engineers regulations.

6. For information on the appeals process, contact the appropriate agency (see Instructions, page 4).

PART 1:
BASIC APPLICATION

"See HELP" directs you to important additional information and assistance in Instructions, page 1.

1.**Applicant Contact Information (See HELP 1)**:
Name: City of Centerville (Dallas Larson)
Complete mailing address: 1880 Main Street
Centerville, MN 55038

Residential phone: ( )

Business phone: (651) 429-4750

Fax *(if available)*: ( )
Email *(if available)*:

1.A.AUTHORIZED AGENT (See HELP 1A.)
(Only if applicable: an agent is not required)
Name: Kjolhaug Environmental Services Company (Mike DeRuyter)
Title: Soil Scientist
Mailing address: 26105 Wild Rose Lane
Shorewood, MN 55331
Residential phone: ( )
Business phone: (952) 401-8757
Fax *(if available)*: (952) 401-8798
Email *(if available:* deruyter@kjolhaugenv.com
I hereby authorize Kjolhaug Environmental Services Co.
To act in my behalf as an agent in the processing of this application and to furnish, upon request, supplemental information in support of this application.

Applicant signature *Date*

2..**PROJECT NAME OR TITLE** *(if applicable)*:
Centerville Industrial Park Connector Road

3. **NAME OR I.D. # OF WATER BODY/BODIES IMPACTED****
(if applicable; if known):
N/A

4a. **ANY WETLANDS IMPACTED?** *(circle one)* (YES) NO

4b. **If YES,** what type (*if known; circle all that apply*)

(1) 1L 2 3 4 5 6 7 8 R unknown

4c. **If YES,** indicate size of entire wetland (check one):

☒ Less than 10 acre (indicate size: approx. 8 acres)
☐ 10-to 40 acres
☐ Greater than 40 acres

5. **PROJECT LOCATION** ** *(information can be found on property tax statement, property title or title insurance)*:'
¼ section _NW_ Section: 24 Township: 31N Range: 22W

County: Anoka Lot #: _____ Block: _____ Subdivision: _____

6. **ADDITIONAL LOCATION DESCRIPTIONS** ** *(if applicable; if known)*: Parcel ID #/GEOCODE:_____

UTM coordinates: easterly _____ northerly _____

Project street address: _____ Fire #: _____

** **For multiple water bodies or locations,** *attach addi tional sheets labeled ADDITIONAL WATER BODIES IMPACTED ADDITIONAL PROJECT LOCATIONS, or ADDITIONAL LOCATION DESCRIPTIONS.*

7. **HOW TO GET TO THE SITE:** Attach a simple site locator map. If needed, include on the map written directions to the site from a known location or landmark. Include highway and street names and numbers. Also provide distances from known locations and any other information that would assist in locating the site. Label the sheet *SITE LOCATOR MAP.*

See Attached Site Location Map

8. **PURPOSE OF PROJECT:** What do you propose to do, and why is it needed. Please be brief. **(See HELP 8 before completing this section.)**

See Attached Narrative

9. **PROPOSED TIMELINE:** Approximate project start date: May, 2006 Projected end date: 2007? (depends on market demands)

10. **PROJECT DESCRIPTION:** Describe in detail what you plan to do and how you plan to do it. **This is the most important part of your application. See HELP 10 before completing this section; see also What To Include on Plans** (Instructions, page 2). If space below is not adequate, attach separate sheet labeled *PROJECT DESCRIPTION.*

See Attached Narrative

11. **FOOTPRINT OF IMPACT** (if applicable): Indicate **total** amount (in acres or square feet) of wetland(s) or water body area(s) to be filled, drained, inundated or excavated; **and/or** indicate length of stream or river affected (in linear feet).

1.23 acres or 53,798 square feet **and/or** _____ linear feet
_____ acres or _____ square feet **and/or** _____ linear feet

12. **TYPE AND ESTIMATED AMOUNT OF MATERIAL (S) TO BE PLACED INTO OR EXCAVATED FROM THE WETLAND OR WATER BODY** *(if applicable)*: List each type of material (such as rock, sand, clay, concrete) to be filled or excavated, and estimate amount in cubic yard.

☒ FILLING ☒ EXCAVATING

Type(s) of material Estimated amount in cubic yards	*Type (s) of material Estimated amount in cubic yards*
Sand & Clay fill 51,031 sf	2,767 sf (for ditch in Wetland 1)

13. **ESTIMATED PROJECT COST:** N/A (for determination of DNR fees only, which are based on total project cost)

14. **SEQUENCING CONSIDERATIONS:** What alternatives to this proposed project have you considered that could have avoided or minimized impacts to wetlands or water? **List at least two alternatives** (one of which may be "No build" or "Do nothing"), and explain why you chose to pursue the option described in this application over these alternatives.

See Attached Narrative

15. **PORTION OF WORK ALREADY COMPLETED:** Is any portion of the work already completed? NO If yes, describe the completed work on a separate sheet of paper labeled *WORK ALREADY COMPLETED. (See HELP 15 before completing this section.)*

16. **ADJOINING PROPERTY OWNERS:** For projects that impact more than 10,000 square feet of water or wetlands, list below complete names and mailing addresses of adjacent property owners whose property also adjoins the wetland or water body where the work is being proposed. **(See HELP 16.** If necessary, attach a separate sheet labeled *ADJOINING PROPERTY OWNERS).*

Complete name (s) *Complete mailing address (including street address, city, state, zip code)*

17. STATUS OF OTHER APPROVALS: List any other permits, reviews or approvals related to this proposed project that are either pending or have already been approved or denied. See HELP 17.

Agency	*Type of approval*	*ID number*	*Date applied for*	*Date approved*	*Date denied*
City of Centerville	Plat Approval, Building permit			Pending	
Rice Creek WD-	Grading Permit			Pending	
US Army Corps	Section 404 permit			With this application	

18. **I am applying for state and local authorization** to conduct the work described in this application. I am familiar with the information contained in this application. To the best of my knowledge and belief, all information in Part 1 is true, complete and accurate. I possess the authority to undertake the work described, or I am acting as the duly authorized agent of the applicant.

19. _____ _____ **OR** _____ 11/17/05
Signature of applicant Date Signature of agent Date

This block must be signed by the person who desires to undertake the proposed activity (the applicant in Section 1) or by the applicant's duly authorized agent (if the boxed Section 1A has been filled out and signed by the applicant).

Federal authorization: Generally, in addition to state authorization, projects in wetland or water areas also require Federal authorization from the Corps of Engineers under Section 404 of the Clean Water Act. To apply to the Corps using this application package, the applicant/agent must complete the modified one-page Federal application form on page 4 and mail it to the Corps (address on Instructions, page 4) with a copy of the state application. Applicants may, if they wish, apply only for Corps authorization by using the unmodified Federal application form that is available from Corps offices or via the Internet at www.mvp.usace.army.mil

APPLICATION FOR DEPARTMENT OF THE ARMY PERMIT (33cfr 325) **OMB APPROVAL NO. (RENEWAL PENDING)**

The public burden for this collection of information is estimated to average 10 hours prep response, although the majority of applications should required 5 hours or less. This includes the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Service Directorate of Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302; and to the Office of Management and Budget, Paperwork Reduction Project (0710-0003) Washington, DC 20503. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. Please DO NOT RETURN your form to either of these addresses. Completed applications must be submitted to the District engineer having jurisdiction over the location of the proposed activity.

PRIVACY ACT STATEMENT: Authorities: Rivers and Harbors Act, Section 10,33 USC 403; Clean Water Act, Section 404, 33 USC 1344; Marine Protection, Research and Sanctuaries Act, 33 USC 1413, Section 103. Principal purpose: Information provided on this form will be used in evaluating the application for a permit. Routine uses: this information may be shared with the Department of Justice and other Federal, state and local government agencies. Submission of requested information is voluntary; however, if information is not provided, the permit application cannot be evaluated nor can a permit be issued.

ITEMS 1 THROUGH 4 to BE FILLED IN BY THE CORPS

1. APPLICATION NO	2. FIELD OFFICE CODE	3. DATE RECEIVED	4. APPLICATION COMPLETED

YOU DO NOT NEED TO COMPLETE THE SHADED AREAS.
All applicants need to complete non-shaded items 5 and 26. If an agent is to be used, also complete items 8 and 11.
This optional Federal form is valid for use only when included as a part of this entire state application packet.

5. APPLICANT'S NAME City of Centerville (Dallas Larson)	6.AUTHORIZED AGENT'S NAME & TITLE Kjolhaug Env. Serv. Co. (Mike DeRuyter), Soil Scientist
6. APPLICANT'S ADDRESS	9. AGENT'S ADDRESS
7. APPLICANT'S PHONE NO. W/AREA CODE	10. AGENT'S PHONE NO. W/AREA CODE

11. STATEMENT OF AUTHORIZATION *(If applicable; complete only if authorizing an agent)*

I hereby authorize ____Kjolhaug Environmental Services Co.____ to act in my behalf as my agent in the processing of this application and to furnish, upon request, supplemental information in support of this permit application.

APPLICANT'S SIGNATURE:______________________________ DATE: ______________

12. PROJECT NAME OR TITLE (See instructions)	
13.NAME OF WATERBODY, IF KNOWN (if applicable)	14. PROJECT STREET ADDRESS (if applicable)
15.LOCATION OF PROJECT	
16. OTHER LOCATION DESCRIPTIONS, IF KNOWN (see instructions)	
17. DIRECTIONS TO THE SITE	18. NATURE OF ACTIVITY
USE BLOCKS 20-22 IF DREDGED AND/OR FILL MATERIAL IS TO BE DISCHARGED	
19. PROJECT PURPOSE	20. REASON(S) FOR DISCHARGE
21. TYPES OF MATERIAL BEING DISCHARGED AND THE AMOUNT OF EACH TYPE IN CUBIC YARDS	
22. SURFACE AREA IN ACRESOF WETLANDS OR OTHER WATERS FILLED	
23. IS ANY PORTION OF THE WORK ALREADY COMPLETE? YES___ NO___ IF YES DESCRIBE COMPLETED WORK	
24. ADDRESSES OF ADJOINING PROPERTY OWNERS, LESSEES, ETC. WHOSE PROPERTY ADJOINS THE WATERBODY	
25. LIST OF OTHER CERTIFICATIONS OR APPROVALS/DENIALS RECEIVED FROM OTHER FEDERAL, STATE OR LOCAL AGENCIES FOR WORK DESCRIBED IN THIS APPLICATION.	

26. Application is hereby made for a permit or permits to authorize the work described in this appellation. I certify that the information in this application is complete and accurate. I further certify that I possess the authority to undertake the work described herein or am acting as the duly authorized agent of the applicant.

Michael Doffyk 11/17/05

Signature of applicant   Date   Signature of agent (if any)   Date

The application must be signed by the person who desired to undertake the proposed activity (applicant), or it may be signed by a duly authorized agent if the statement in Block 11 has been filled out and signed. **18 U.S.C. Section 1001** provides that: Whoever, in any manner within the jurisdiction of any department or agency of the United States knowingly and willfully falsifies, conceals, or covers up with any trick, scheme or disguises a material fact or makes any false, fictitious or fraudulent statements or representations or makes or uses any false writing or document knowing same to contain any false, fictitious or fraudulent statements or entry, shall be fined not more than $10,000 or imprisoned not more than five years or both.

DO YOU NEED TO COMPLETE PART 2?

Part 2: Replacement Plan Supplement must be completed by anyone who needs to develop a replacement plan for wetland mitigation. If you're not sure *whether your project requires a replacement plan:*

■ **Call your LGU or SWCD office for guidance** as to whether your project will require completing Part 1. If it is determined that your project will require wetland replacement, complete and submit Part 2 along with Part 1.

■ **If you prefer, you may choose to send in Part 1 only.** After reviewing your application, the responding agencies will let you know if you need to complete and return Part 2. **Caution**: if your project will require wetland replacement, completing and returning both parts immediately is advisable. Submitting Part 1 and Part 2 separately rather than at the same time **may extend the application review process.**

PART 2:
REPLACEMENT PLAN SUPPLEMENT

For assistance in completing Part 2, contact your LGU or a professional consultant.

19. **DESCRITPION OF WETLAND IMPACTS**: Complete the chart below: 1) Use one row of boxes for each wetland impact. 2) If your project has more than one wetland impact, reference your overhead view (part of Section 10) to this chart by identifying and labeling "first impact" and "second impact" **on your overhead view.** 3) If you are identifying only one wetland type within a given wetland impact area, use the first dotted line and leave the others blank. 4) If you have chosen to identify more than one wetland type within a given wetland impact area, use the extra dotted lines to indicate each separate wetland type, and identify predominant vegetation and size of impacted area for each separate wetland **type within that impact area.** 5) If you do not have access to some of the information, call your LGU or SWCD office for assistance. *(Photocopy chart for more impacts, if needed.)*

DESCRIPTION OF WETLAND IMPACTS

Wetland impact (*as noted on overhead view*)	Watershed Name or Number (*if known*)	Is site within 1000 ft of a lake or 300 ft of a river? (YES or NO)	Wetland type	Predominant vegetation in impacted wetland area	Size of area Impacted (*in acres or sq feet*)	Existing land use in project area (check all that apply)
First impact-Wetland 1	Mississippi River Metro (#20)	No	1 (PEMA)	Reed canary grass, sedges	51,031 sf fill	☐ housing ☐ commercial ☒ industrial ☐ parks/recreation areas ☒ highways and associated rights-of-way ☒ forested ☐ farmsteads/agricultural ☐ vacant lands ☐ public and semi-public (schools/gov't facilities) ☐ airports ☐ extractive (gravel pits/ quarries) ☐ other:
Second impact-Wetland 1			1 (PEMA)	Reed canary grass, sedges	2,767 sf excavation	

1 If you are identifying only one wetland type within a given wetland impact area, use the first dotted line and leave the others blank. If you have chosen to identify more than one wetland type within a given wetland impact area, use the extra dotted lines to indicate each separate wetland type, and identify predominant vegetation and size of impacted area **for each separate wetland type within that impact area.**

TOTALS OF AREA(S) IMPACTED FOR EACH WETLAND TYPE ON CHART *(indicate acres or square feet)*:
Type 1: 1.23 acre 1L:____2:_3: ___4: ___5:_____6:__7:_____8:_____R:_____

20. **SPECIAL CONSIDERATIONS:** Are you aware of any special considerations that apply to either the impact site(s) or the replacement site(s)? _____NO_____(Examples: the presence of endangered species, special fish and wildlife resources, sensitive surface waters, or waste disposal sites) **IF YES, list and describe briefly.**

21. **ARCHAEOLOGICAL OR CULTURAL RESOURCE DETERMINATIONS:** Are you aware of any archaeological or cultural resource determinations or surveys completed concerning the project or replacement site by the State Historical Preservation Office (SHPO) or others? ___NO____If *yes*, please explain below or attach a copy of any determinations or surveys.

22. **HOW PROPOSED REPLACEMENT WILL BE ACCOMPLISHED:** Indicate how proposed replacement will be accomplished (check only one box below and continue as indicated):

☐ **A. WETLAND banking only**
- Complete *Application for Withdrawal of Wetland Credits* From and include with your application Copies of this form are available from your LGU, or download a copy from www.bwsr.state.ms.us
- Skip to Section 27, page 8. **(You do not need to complete Sections 23-26.)**

☒ **B. Project-specific replacement only**
- Continue with Section 23 below.

☐ **C. A combination of wetland banking and project-specific replacement**
- Complete *Application for Withdrawal of Wetland Credits Form* and include with your application.
Copies are available from your LGU, or download a copy from www.bwsr.state.mn.us
- Continue with Section 23 below.

23. **DESCRIPTION OF REPLACEMENT WETLAND(S) CONSTRUCTION (Complete this section only if you marked Box B or Box C in Section 22 above):** Describe in detail how replacement wetland(s) will be constructed. If several methods will be used, describe each method. Details should include the following: 1) type of construction (such as excavated in upland, restored by tile break, restored by ditch block or revegetated); 2. type, size and specifications of outlet structures: 3) elevations relative to Mean Sea Level or established benchmarks of key features (such as sill, emergency overflow or structure height); 4) what best management practices will be implemented to prevent erosion or site degradation; 5) proposed timetable for starting and ending the project; and 6) a vegetation management plan. Write

this description on a separate sheet of paper labeled *DESCRIPTION OF REPLACEMENT WETLAND CONSTRUCTION.*

See Attached Narrative

24. **SURPLUS WETLAND CREDITS:** If using project-specific replacement (Box B or Box C in Section 22 above), will the replacement result in any surplus wetland credits that you wish to have deposited in the State Wetland Bank for future use? (indicate YES or NO) Yes If yes, **submit a Wetland Banking Application directly to your LGU.** Copies are available from your LGU, or download a copy from www.bwsr.state.mn.us

25. **DESCRIPTION OF REPLACEMENT WETLANDS** Complete the chart below: 1) Use one row of boxes for each wetland replacement site. 2) If your project has more than one wetland replacement site, reference your overhead view (part of Section 26) to this chart by identifying and labeling "first replacement site" and "second replacement site" **on your overhead view.** 3) If you are identifying only one wetland type within a given replacement site, use the first dotted line(s) and leave the others blank. 4) If you have chosen to identify more than one wetland type in a given replacement site, use the extra dotted lines to indicate each separate wetland type, and identify type(s) of replacement credits and "restored or created" **for each separate wetland type within that replacement site.** 5) If you do not have access to some of the information, or if you do not know your replacement ration, call your LGU or SWCD office for assistance. (Photocopy chart for more wetland replacements, if needed.)

DESCRIPTION OF REPLACEMENT WETLANDS

Wetland Replacement Site *(as noted on overhead view)*	Watershed Name or Number *(If known)*	County	Topographic Setting [1]	Wetland Type [2]	(Type(s) of replacement credits *(in acres or square feet)*		Restored Or created? Indicate R or C
					New Wetland Credits (NWC)	Public Value Credits (PVC)	
Replacement Wetlands A to G	Mississippi River Metro (#20)	Anoka	Tributary	1 (PEMA)	1.34 acre	NA	C
				Upland Buffer	NA	0.56 acre	
				Stormwater Pond	NA	0.56 acre	
					1.34 acre TOTAL NWC	**1.12 acre TOTAL PVC**	

[1] **Topographic setting types** Indicate S for Shoreland: R for Riverine; F for Flood-plane; FT for Flow-through; T for Tributary; and I for Isolated.

[2] ***Circular 39* wetland types**: *Indicate 1, 1L, 2, 3, 4, 5, 6, 7, 8,R; or U.* If you are identifying only one wetland type within a given wetland impact area, use the first dotted line and leave the others blank. If you have chosen to identify more than one wetland type within a given wetland impact area, use the extra dotted lines to indicate each separate wetland type, and identify predominant vegetation and size of impacted area **for each separate wetland type within that impact area.**

REQUIRED REPLACEMENT RATIO: 2:1 *(if known)*

26. ADDITIONAL INFORMATION REQUIRED FOR PROJECT-SPECIFIC REPLACMENT (Required only if you marked Box B or Box C in Section 22):

For projects involving at least some project-specific replacement, include the following additional information;

☐ **Two drawings to scale** of the replacement wetland. Include both overhead view and profile view (side view or cross-sectional view). See What To include on Plans (Instructions, page 2) for a detailed description of what should be included in these drawings. Without drawings, **your application will be considered incomplete.**

☐ **For created replacement wetlands,** include additional soils information **(if available)** that indicates the capability of the site to produce and maintain wetland characteristics.

■ **Note 1: For replacement wetlands located on pipeline easements,** you need to receive endorsement of our project from both the easement holder and the Minnesota Department of Public Safety's Office of Pipeline Safety. Before start of construction, the owner of any utilities involved must be notified. The landowner or contractor is responsible for giving this notice by calling "Gopher States One-Call" at 651-454-0002 (Twin Cities Metro Area) or 1-800-252-1166 (all other locations).

■ **Note 2: For extensive or complex projects,** supplementary information may be requested at a later date from one or more of the responding agencies. Such information may include (but not be limited to) the following: topographic map, water table map, soil borings, depth soundings, aerial photographs, environmental assessment and/or engineering reports.

27. **SIGNED AFFIRMATIONS:** Sign and date **either** Box 27a **or** Box 27b below. If your project involves replacement by wetland banking only, sign Box 27a. For all other projects, read Box 27b, check appropriate boxes in part B, and sign.

27 a. For projects involving replacement by wetland banking only:

To the best of my knowledge and belief, all information in Part 2 is true, complete and accurate; and I affirm that the wetland losses will be replaced via withdrawal from an account in the States Wetland Bank.

_______________________ _______________

Signature of applicant or agent *Date*

27b. For projects involving either project-specific replacement only or a combination of wetland banking and project-specific replacement:
Part A: The replacement wetland (affirm **all** statements):

■ Was not previously restored or created under a prior approval replacement plan: **AND**

■ Was not drained or filled under an exemption during the previous 10 years; **AND**

■ Was not restored with financial assistance from public conservation programs; **AND**

■ Was not restored using private funds, other than those of the landowner, unless the funds are paid back with interest to the individual organization that funded the restoration; and the individual or organization notifies the local government unit in writing that the restored wetland may be considered for replacement.

Part B: Additional assurances (check all that apply):

☐ The wetland will be replaced before or concurrent with the actual draining or filling of a wetland.

☐ An irrevocable bank letter of credit, performance bond, or other acceptable security has been provided to guarantee the successful completion of the wetland replacement.

☐ The wetland losses will be replaced via withdrawal from an account in the State Wetland Bank.

Part C: For projects involving any project-specific replacement: Within 30 days of either receiving approval of this application or beginning work on the project, I will record the Declaration of Restrictions and Covenants on the deed for the property on which the replacement wetland(s) will be located; and I will at the same time submit proof of such recording to the LGU.

To the best of my knowledge and belief, all information in Part 2 is true, complete and accurate; and I affirm all statements in Parts A and C, as well as checked assurance(s) in Part B.

[signature] 11/17/05

Signature of applicant or agent *Date*

FOR LGU USE ONLY

Replacement plan is (check one): ☐ Approved ☐ Approved with conditions (conditions attached) ☐ Denied

_______________________ _______________

LGLU official signature *Date*

LGU has received evidence of title and proof of recording of Declaration of Restrictions and Covenants for Replacement Wetland:

_______________________ _______________ _______________

County where recorded *Date recorded* *Document # assigned by recorder*

_______________________ _______________

LGU official signature *Date*

Minnesota Local/State/Federal Application Forms for Water/Wetland Projects

PUBLIC TRANSPORTATION AND LINEAR UTILITY PROJECTS
LOCAL AND STATE:

Application for Local Government Unit approval Pursuant to Minnesota Wetlands Conservation Act (WCA)
Project Specific Report and Notification for Work on Existing Public Roads Pursuant to Minnesota WCA
Application for Minnesota Department of Natural Resources Permit to Work in Public Waters
Application for Minnesota Pollution Control Agency Clean Water Act (CWA) Section 401 Certification

FEDERAL:

Application for the Department of the Army Permit (33 CFR 325) (see Page 5)

Use this form to notify and apply for authorization of any proposed water/wetland project affecting lakes, rivers, streams or wetlands that may fall within the jurisdiction of 1) the appropriate Local Government Unit **(LGU)**, 2) the Minnesota Department of Natural Resources **(DNR)**, or 3) the U. S. Army Corps of Engineers **(COE)**. If a 401 certification is required from the Minnesota Pollution Control Agency **(MPCA)**, the COE will forward this application to the MPCA for processing. You do not need to send this application to the MPCA. **This application packet includes the following:**

PART I: STANDARD APPLICATION. Fill out (Pages 1-4) and submit along with the required attachments. Instructions for completing Part I are attached.

APPLICATION FOR DEPARTMENT OF THE ARMY PERMIT. Generally, in addition to state and local authorization, projects in wetland or water areas also require Federal authorization from the Corps of Engineers (COE) under Section 404 of the Clean Water Act. To apply to the COE using this application packet, complete the modified one page Federal application form found on Page 5, and mail it to the COE along with a copy of the local/state application.

NOTE CONCERNING COE JURISDICTION: You do not need to notify or obtain further authorization from COE if **all** proposed work is covered by either a COE Section 404 non-reporting General Permit **or** a Clean Water Act Section 404 exemption, **or** if no work is in an area subject to COE jurisdiction under Section 404 of the Clean Water Act or Section 10 of the Rivers and Harbors Act of 1899. Contact the COE if you have questions.

A separate form **(PART II: PUBLIC ROAD MAINTENANCE SHORT FORM NOTICE)** is available for use for existing public road maintenance projects **only** if they qualify as either:
(1) Minor or emergency work impacting less than 10,000 square feet of wetlands subject to the WCA; OR
(2) Minor or emergency work impacting less than 10,000 square feet of certain DNR Public Water Wetlands (i.e., those not assigned a shoreland classification, not classified as lacustrine wetlands or deepwater habitats, or not having state or federal land ownership); OR
(3) Work **impacting DNR Public Water Wetlands and wetland areas of DNR Public Water basins** when the DNR has received a copy of the Public Road Maintenance Short Form Notice and has waived the requirement for a DNR Public Water Work Permit to either the LGU responsible for WCA or the public road authority responsible for reporting wetland impacts to the Board of Water and Soil Resources; OR
(4) Work involving existing public road crossings of DNR Public Waters.

If your project qualifies for this category, use this separate Public Road Maintenance Short Form Notice. See the instructions accompanying this Form Notice.

INSTRUCTIONS (Introduction and Instructions) assist with completion and mailing of these applications.

Before beginning work on your project, you must receive all required approvals from the appropriate LGU, the DNR and the U.S. Army Corps of Engineers (COE). If you have not received a reply after 45 days, or if you wish to confirm the status of your application at any time, contact the agencies directly (see Instructions, Page 3). **Proceeding with work before all required authorizations are obtained may result in fines or other penalties, and may include a requirement to restore the project site to original condition.**

If you have questions or need assistance with filling out this application, contact your LGU, your DNR Waters Area Hydrologist, or your COE regulatory field office (see Instructions, Page 3).

Note: If you believe that your project may be subject to Watershed District Regulations, local Planning and Zoning jurisdiction, or any other locally implemented or enacted controls beside those of your LGU, contact the appropriate office(s) directly **in addition to your LGU, the DNR, and the COE.** For more information, contact your local Soil and Water Conservation District (SWCD) or refer to www.bwsr.state.mn.us.

A QUICK LOOK AT THE PROJECT APPLICATION PROCESS

Forms can be downloaded from the BWSR or DNR web sites and filled out using Microsoft Word. Your input will be restricted to fill-in fields where users can enter text or check boxes. These areas appear gray on the screen, but not on the printed document.

Send copies of your completed application forms to your LGU, area DNR office, and your COE regulatory office. LOCAL government road projects that qualify for replacement of wetland impacts via the BWSR Road Replacement Program must also send a copy to the BWSR Wetland Banking Administrator (See Instructions, Page 3).

When your application is considered complete and the appropriate fees have been received (if requested by the regulating agencies) it will be distributed for review and comment and you will be notified if it is *accepted as proposed, approved with changes or conditions, withdrawn, or denied.* You will also be informed of any appeal rights relating to the decision.

WEB SITES

Refer to the following web sites for more information regarding regulations of water and wetlands:

BWSR: www.bwsr.state.mn.us

DNR: www.dnr.state.mn.us

Corps St. Paul District: www.mvp.usace.army.mil

MPCA: www.pca.state.mn.us

For information on the appeals process, contact the appropriate agency (See Instructions, Page 3)

Minnesota Local/State/Federal Application Forms for Water/Wetland Projects
PUBLIC TRANSPORTATION AND LINEAR UTILITY PROJECTS
PART I - STANDARD APPLICATION

For Internal Use Only			
Application No. INV:	Field Office Code	Date Initial Application Received	Date Initial Application Deemed Complete

"See HELP" for important additional information and assistance in Instructions, Pages 3 – 5

IS THIS AN ORIGINAL OR AMENDED NOTICE? (check one)

This is *an original* notice ☐, dated This is an *amended* notice ☐, dated

1. APPLICANT CONTACT INFORMATION:

Name of applicant: City of Centerville

Contact person (name and title): Dallas Larson (City Administrator)

Complete mailing address: 1880 Main Street, Centerville, MN 55038

Business phone: (651) 429-4750 Fax: ( ) e-mail:

2. PROJECT IDENTIFICATION (See HELP 2): Also attach *PROJECT LOCATION MAP*.
Centerville Industrial Park Connector Road

3. LAND USE: Describe existing land use in project area. (See HELP 3) (pick one from the list)
See attached narrative

4. PROJECT CATEGORY (check **all** that apply):

- ☐ Repair rehabilitation, reconstruction or replacement of existing roads that impact wetlands (including wetland areas of DNR Public Waters). If so, indicate size of impact (check one).
- ☐ Less than 10,000 square feet of wetlands (see HELP 4).
- ☒ Greater than 10,000 square feet of wetlands.
- ☒ New road or modification of an existing road solely to increase traffic capacity impacting any amount of wetland area River, lake or stream impact (excluding wetland areas of DNR Public Waters).
- ☐ Placement, maintenance or repair of linear utility projects.

5. PROPOSED TIMELINE: Approximate project start date: May, 2006 Projected end date: 2007?.

6. PROJECT DESCRIPTION: Check **all** that apply. **Also include a detailed overhead view of your plan** that clearly depicts the work to be undertaken. See What To Include on Plans (Instructions, Page 4)

- ☐ Guardrail improvement
- ☐ Guardrail improvement with slope flattening
- ☐ Resurfacing
- ☐ Culvert work; repair, extension or replacement
- ☐ Stream diversion
- ☐ Shoulder work: repair widening
- ☐ Shoulder widening with ditch grading
- ☐ Other
- ☐ Slope flattening
- ☐ Turn lane: improvement of existing or new construction
- ☐ Bridge work: repair
- ☐ Bridge work: replacement
- ☐ Reconstruction (existing roads)
- ☐ Additional lanes solely for traffic capacity
- ☒ New road construction
- ☐ Linear utility Projects

7. ESTIMATED PROJECT COST: FUNDING SOURCES (%): Federal State Local 100

8. SEQUENCING CONSIDERATIONS: What alternatives to this proposed project have you considered that could have avoided or minimized impacts to wetlands or water? **For new construction only - list at least two alternatives** (one of which may be "no build" or "do nothing"), and explain why you chose to pursue the option described in this application over these alternatives. (If space below is not adequate, attach separate sheet labeled *SEQUENCING CONSIDERATIONS.)*
See attached narrative

9A. IMPACT SUMMARY: Impacts to lakes and watercourses only - indicate total amount (in acres or square feet) of water body area(s) to be filled, drained, inundated, or excavated. For watercourses indicate length of stream or river affected (in linear feet). **(See HELP 9A & 9B)**

Location of Impact *Section, Twp, Range*	**County Name and Watershed No.**	**Public Waters** *Indicate name* ***And ID Number***	**For lakes** *indicate area of impact in acres*	**For watercourse impacts** *indicate length of impact* ***in linear feet***
NA	NA	NA	NA	NA

AFFIRMATION For Public Waters impacts:

I am applying for state and local authorization to conduct the work described in this application.
I am familiar with the information contained in this application.
To the best of my knowledge and belief, all information in this application is true, complete and accurate.
I possess the authority to undertake the work described, or I am acting as the duly authorized agent of the applicant

IF your project will impact **ONLY DNR** Public Waters, proceed directly to the Applicant Signature Block on Page 4.

9B. IMPACT SUMMARY: For impacts to wetlands only:

ID of Wetland Basin Impacted	**Watershed Name or No.**	**County**	**Section, Twp, Range**	**Wetland Type**	**Predominant Vegetation**	**Size of Wetland Impact**	**Size of Wetland Basin**
Wetland 1	20	Anoka	24, T31, R22	Type 1	Reed canary, sedges	23,789sf	8 ac
Wetland 2	20	Anoka	24, T31, R22	Type 1	Reed canary	8,394 sf	0.25ac

TOTALS OF AREA (S) IMPACTED FOR EACH WETLAND TYPE:

Type 1	**Type 1L**	**Type 2**	**Type 3**	**Type 4**	**Type 5**	**Type 6**	**Type 7**	**Type 8**	**Type R**
0.74 acre									

9C. Are any of these impact sites within 1000 feet of a lake or 300 feet of a river? ☒ No ☐ Yes.
If YES, please explain.

10. TYPE and AMOUNT OF FILL MATERIAL: e.g., rock, sand, clay or concrete (indicate amount of cubic yards.)
0.74 acre of clean sandy fill and Class 5 road bed materials

11. ADJOINING PROPERTY OWNERS: For projects that require a COE standard individual permit, attach a list of ADJOINING PROPERTY OWNERS that includes complete names and mailing addresses of adjacent property owners whose property also adjoins the wetland or water body where the work is being proposed.

12. PORTION OF WORK ALREADY COMPLETED: Is any portion of the work already completed? ☒ No ☐ Yes
If YES, attach *DESCRIPTION OF WORK COMPLETED* and provide permit numbers if applicable.

13. STATUS OF OTHER APPROVALS: Attach *STATUS OF OTHER APPROVALS LIST*, include any other permits, reviews, or approvals related to this proposed project that are either pending, or have already been approved or denied. **(See HELP 13)**

STATE EAW AND EIS REQUIREMENTS: Are state Environmental Assessment Worksheets or Environmental Impact Statements required for this project? **(see HELP 13.)**
☒ not required ☐ yes, indicate status below

ARCHEOLOGICAL OR CULTURAL RESOURCES DETERMINATIONS: Are you aware of any archeological or cultural resource determinations or surveys completed concerning the project or replacement site that are already completed or in process by the State Historical Society Preservation Office (SHPO) or others? ☒No ☐Yes. If YES, please explain below or attach a copy of any determinations or surveys. If NO, and if project will use federal or state-aid funds, contact SHPO for determination.

14. SPECIAL CONSIDERATIONS: Are you aware of any special considerations that apply directly or indirectly to either the impact sites(s) or the replacement sites(s)? (Examples: the presence of endangered species, special fish and wildlife resources, sensitive surface waters, calcareous fens, or waste disposal sites.) **(See HELP 14)**

☒ Not aware of any special considerations

☐ Yes, attach a list of SPECIAL CONSIDERATIONS and include brief descriptions of each consideration listed.

15. ON-SITE MITIGATION CONSIDERATIONS. List any important site-specific wetland functions and describe options considered for mitigation of these functions onsite.

16. HOW WILL PROPOSED REPLACEMENT BE ACCOMPLISHED:

Wetland Banking **only**? ☐No ☒Yes (if Yes, proceed to Question 17)

Project-specific replacement **only**? ☐No ☐Yes (if YES, check all that apply below and proceed to Question 19)

Project –specific replacement **and** Wetland Banking? ☐No ☐Yes (If Yes, check all that apply below, and proceed to Questions 18 and 19)

For projects involving any project–specific replacement

Part A: The replacement wetland (affirm all statements):

Was *not* previously restored or created under a prior approval replacement plan or permit; **AND**
Was *not* drained or filled under an exemption during the previous 10 years, **AND**
Was *not* restored with financial assistance from public conservation programs; **AND**
Was *not* restored using private funds, other than those of the landowner, unless the funds are paid back with interest to the individual or organization that funded the restoration; and the individual or organization notifies the local government unit in writing that the restored wetland may be considered for replacement.

Part B: Additional assurances (check all that apply);

☒ The wetland will be replaced before or concurrent with the actual draining or filling of a wetland.

☐ An irrevocable bank letter of credit, performed bond, or other acceptable security has been provided to guarantee the successful completion of the wetland replacement.

☒ The wetland losses will be replaced via withdrawal from an account in the State Wetland Bank.

Part C: For projects involving any project-specific replacement: I will record the Declaration of Restrictions and Covenants of the deed for the property of which the replacement wetland(s) will be located; and I will at the same time submit proof of such recording to the LGU.

17. IF REPLACEMENT CONSISTS OF WETLAND BANKING, check appropriate option(s) below. **(See HELP 17)**

☐ BWSR Road Replacement Program: this option is available only for repair, rehabilitation, reconstruction or replacement of existing county, township or city roads. (Note: the TEP must certify that the project qualifies for this option – page 6.) If **all** of your replacement qualifies for this option - ***you do not need to answer the remaining questions, please skip to the Applicant Signature Blocks (pages 4 and 5).***

☒ State Wetland Bank - proceed to Question 21. (You must also complete the Application for Withdrawal of Credits Form and include with your application, see **HELP 6**).

18. FOR PROJECTS INVOLVING REPLACEMENT BY WETLAND BANKING: I affirm that to the best of my knowledge and belief that all information in this application is true, complete and accurate. I affirm that the wetland losses will be replaced via withdrawal from an account in the State Wetland Bank. I affirm that a completed withdrawal form has been submitted to the BWSR Wetland Bank Coordinator for replacing losses through the State Wetland Bank.

19. DESCRIPTION OF REPLACEMENT WETLAND (S) CONSTRUCTION: (Complete this section only if you are conducting project-specific replacement). See **HELP 19** and attach this description on a separate sheet of paper labeled DESCRIPTION OF REPLACEMENT WETLAND CONSTRUCTION.

20. SURPLUS WETLAND CREDITS: If using project-specific replacement, will the replacement result in any surplus wetland credits that you wish to have deposited in the State Wetland Bank for future use? ☐No ☐Yes. If Yes, submit a Wetland Banking Application directly to your LGU. Copies are available from your LGU, or you may download a copy from www.bwsr.state.mn.us

21. DESCRIPTION OF REPLACEMENT WETLANDS: Complete the chart below for all wetland replacement sites **(including bank sites)** except for replacement to be completed through the BWSR Road Replacement Program. If your project has more than one wetland replacement site, reference your overhead view (See Question 6) to this chart. See **HELP 21.**

Name of Wetland Replacement Site	Major Watershed number	County Section Township Range	Predominant Vegetation Proposed	Wetland Type	New Wetland Credits (NWC)	Public Value Credits (PVC)	Restored or created? Indicate R or C
BWSR Bank					0.74 ac	0.74 ac	

TOTALS:

Applicant Signature Block

To the best of my knowledge and belief, all information in this application is true, complete and accurate. I possess the authority to undertake the work described, or I am acting as the duly appointed agent of the applicant.

Michael DeRyth (agent) 4/17/05

Signature Date

FOR LGU USE ONLY

For projects involving construction of new roads, increased traffic capacity or linear utility of projects, the replacement plan is (Check one):

☐ Approved ☐ Approved with conditions (conditions attached) ☐ Denied

LGU official signature Date

LGU has received evidence of title and proof of recording of Declaration of Restrictions and Covenants for Replacement Wetland:

County where recorded Date Recorded Document # assigned by Recorder

LGU official signature Date

APPLICATION FOR DEPARTMENT OF THE ARMY PERMIT (33 CFR 325) **OMB APPROVAL NO. 0710-003 Expires Dec 31, 2004**

ITEMS 1 THROUGH 4 TO BE FILLED IN BY THE CORPS

1. APPLICATION NO.	2. FIELD OFFICE CODE	3. DATE RECEIVED	4. DATE APPLICATION COMPLETED

YOU *DO NOT* NEED TO COMPLETE ITEMS 6-10 and 12-25 in the SHADED AREAS.

All applicants need to complete **non-shaded** items 5 and 26. If an agent is to be used, **also** complete items 8 and 11. This optional Federal form is valid for use ***only*** when included as part of this entire state application packet

5. APPLICANT'S NAME	8. AUTHORIZED AGENT'S NAME AND TITLE (an agent is not required)
City of Centerville	Mike DeRuyter, Kjolhaug E

[redacted]

11. STATEMENT OF AUTHORIZATION (*if applicable; complete* **only** *if authorizing an agent)*

I hereby authorize Kjolhaug Environmental Services Company to act on my behalf as my agent in the processing of this application and to furnish,
upon request, supplemental information in support of this permit application.

APPLICANT"S SIGNATURE: _____ DATE: _____

[redacted]

26.Application is hereby made for a permit or permits to authorize the work described in this application. I certify that the information in this application is complete and accurate. I further certify that I possess the authority to undertake the work described herein or am acting as the duly authorized agent of the applicant.

Signature of applicant	Date	Signature of agent (if any)	Date
		Michael DeRuyter	4/17/05

The application must be signed by the person who desires to undertake the proposed activity (applicant), or it may be signed by a duly authorized agent if the statement in Block 11 has been filled out and signed. 18 U.S.C. Section 1001 provides that: Whoever, in any manner within the jurisdiction of any department or agency of the United States knowingly and willfully falsifies, conceals, or covers up with any trick, scheme, or disguises a material fact or makes any false, fictitious or fraudulent statements or representations or makes or uses any false writing or document knowing same to contain any false, fictitious or fraudulent statements or entry, shall be fined not more than $10,000 or imprisoned not more than five years or both.

ENG FORM 4345, Jul 97 EDITION OF FEB 94 IS OBSOLETE. (Proponent: CECW-OR)

FOR TEP USE ONLY

This section must be completed for projects affecting more than 10,000 sq. ft. of wetland involving repair, rehabilitation, reconstruction, or replacement of a currently serviceable existing state, city, county, or township public road necessary to meet state or federal design or safety standards or requirements, and for which the impacts are proposed to be replaced by BWSR through the Public Road Replacement Program. No debit of wetland banking credits shall occur until a majority of the TEP members recommend approval by signing below.

As indicated below, TEP members recommend the BWSR debit the State Wetland bank to provide replacement for wetland impacts identified on this form, and certify the following:

- The public road authority has provided project-specific reports to TEP members at least 30 days prior to beginning construction, or within 30 days after an emergency repair resulting in less than 10,000 ft^2 of impact; and
- The TEP has reviewed minimization and delineation decisions made by the public road authority and determined the decisions to be satisfactory.

☐ Agree
☐ Disagree

SWCD Representative (Date)

☐ Agree
☐ Disagree

BWSR Representative (Date)

☐ Agree
☐ Disagree

LGU Representative (Date)

☐ Agree
☐ Disagree

DNR Representative (if applicable) (Date)

Instructions for Part I

HELP 2: Indicate road name and/or number, termini and project numbers.

HELP 3: List all that apply: housing, commercial industrial, parks/recreation areas, highways and associated right-of-way, forests, farmsteads/agricultural, vacant lands, public and semi-public (schools, government facilities), airports, extractive (gravel, pits, quarries), other.

HELP 4: Please note that a PART II: PUBLIC ROAD MAINTENANCE SHORT FORM has been developed for use with maintenance projects that qualify as either minor or emergency work impacting: **minor or emergency work** impacting less than 10,000 square feet of wetlands subject to the WCA, OR

- ☐ **minor or emergency work** impacting less than 10,000 square feet of certain DNR Public Water Wetlands (i.e., those not assigned a shoreland classification, not classified as lacustrine wetlands or deepwater habitats, or not having state or federal land ownership), provided a copy of this form is sent to the DNR Waters area office **prior** to initiation of the project, OR
- ☐ **DNR Public Water Wetlands and wetland areas of DNR Public Waterbasins** when the DNR has received a copy of the Public Road Maintenance Short Form Notice and has waived the requirement for a DNR Public Water Work Permit to either the LGU responsible for WCA or the public road authority responsible for reporting wetland impacts to the Board of Water and Soil Resources, OR
- ☐ **Existing public road crossings of DNR Public Waters.**

Contact the DNR Waters Area Hydrologist if assistance is needed on shoreland, lacustrine or deep-water determinations.

HELP 9A & 9B: See www.dnr.state.mn.us/watersheds/map.html for a state map with watershed names and numbers.

HELP 13: Other permits, reviews or approvals related to the project may include the following: conditional use permit; National Pollutant Discharge Elimination System permit; state disposal system permit (includes dredged material disposal: watershed district/watershed management organization permit (storm water, erosion, floodplain); groundwater appropriation permit; or county/township driveway/road permit.

If you do not know whether your project requires state Environmental Assessment Worksheets or Environmental Impact Statements, contact the Environmental Quality Board, 658 Cedar Street, St. Paul, MN 55155. Phone 651-297-1257. e-mail: eqb@mnplan.state.mn.us. Web site: www.mnplan.state.mn.us/eqb/review.html.

Contact the State Historic Preservation Office for a determination. Phone: 651-296-5434. email: mnshpo@mnhs.org.

HELP 14: If you wish to obtain information on state-listed threatened and endangered species and other natural resource elementscontact the DNR Natural Heritage Program at 651-296-7963.

HELP 17: Copies of the *Application for Withdrawal of Credits* forms are available from your LGU, or you may download a copy from www.bwsr.state.mn.us

HELP 19: Describe, in detail, how mitigation wetland(s) will be constructed. If several methods will be used describe each method. Details should include: 1) type of construction (such as excavated in upland, restored the tile break, restored by ditch block or revegetated); 2) type size and specifications of outlet structures; 3) elevations relative to Mean Sea Level or established benchmarks of key features (such as sill, emergency overflow or structure height); 4) what best management practices will be implemented to prevent erosion or site degradation; 5) proposed project start and end dates; and 6) a vegetation management plan. Attach this description on a separate sheet of paper labeled *DESCRIPTION OF REPLACEMENT WETLAND CONSTRUCTION.*

For projects involving at least some project-specific replacement, include the following additional information:

- ☐ **Two drawings to scale** of the replacement wetland. Include both overhead view and profile view (side view or cross-sectional view). Without drawings, your application will be considered incomplete.
- ☐ **For created replacement wetlands,** include additional soils information **(if available)** that indicates the capability or the site to produce and maintain wetland characteristics.
- ☐ **Note 1: For replacement wetlands located on pipeline easements,** you need to receive endorsement of your project from both the easement holder and the Minnesota Department of Public Safety's Office of Pipeline Safety. Before state of construction, the owner of any utilities involved must be notified. The landowners or contractor is responsible for giving this notice by calling Gopher State One-Call at 651-454-0002 (Twin Cities Metro Area) or 1-800-252-1166 (all other locations).
- ☐ **Note 2: For extensive or complex projects,** supplementary information may be requested at a later date from one or more of the responding agencies. Such information may include (but not be limited to) the following topographic map, water table map, soil borings, depth soundings, aerial photographs, and environmental assessment and/ or engineering reports.

HELP 21: If you do not have access to some of the information requested, or if you do not know your replacement ratio, call your LGU or SWCD office for assistance.

What to include on Plans (Part I)

Detailed overhead views of impact site(s) and replacement site(s), as well as profile view(s) of replacement site(s) may be hand drawn, computer generated or professionally prepared, as long as they contain all necessary information clearly, accurately, and in adequate detail. Please include specific dimensions whenever possible. You may also include photos, if you wish.

Overhead views of impact site(s) and replacement site(s) should include the following items that pertain to your project:

1. Location and extent of shoreline, wetlands and water.
2. Section, township and range of site(s).
3. Location and dimensions of proposed project, structure or activity. Include length, width, elevation and other measurements, including old and new alignments, as appropriate.
4. For bridge and culvert projects, include hydrology and hydraulic reports as applicable.
5. Points of reference (such as existing bridges, culverts, landscape features).
6. Location of inlet and outlet structures.
7. Indication of north.
8. Location of spoil and disposal sites (if applicable).
9. Location of photo reference points for future monitoring of replacement site(s).

Profile views (side or cross sectional views) of replacement site(s) should include the following items that pertain to your project:

1. Location and dimensions of proposed project, structure or activity. Include elevation, depth, soil profile, side slope, and other measurements as appropriate.
2. Proposed water level elevation.
3. Areas of wetland and upland plants established on replacement site(s).

Other information

1. Property boundaries.
2. Location and extent of shoreline and water.
3. Location and dimensions of proposed project, structure or activity include length, width, elevation and other measurements as appropriate.
4. Points of reference (such as existing bridges, culverts or landscape features).
5. Location of inlet and outlet structures.
6. Indication of north.
7. Location of spoil and disposal sites (if applicable).

Final Checklist

Attachments must include:

Project Locator Map
Description of Work Completed (Question 12; if answered "Yes")
Overhead View of Project
Adjoining Property Owners (for projects that require a COE individual permit)
Status of Other Approvals List
Signed application for the Department of the Army Permit (Page 5) to seek Federal authorization of your project?

Attachments may also include:

Sequencing Considerations (Question 8; if additional space is needed)
Listing of Special Consideration (Question 14; if answered "yes")
SHPO archaeological or cultural resource determinations or surveys (Question 13; if required and if completed)

If project includes any wetland banking, attachments must include: Application for Withdrawal of Wetland Credits (Section 17)

If project includes any project specific replacement, attachments must include: 1) Description of Replacement Wetland Construction (Section 19); 2) Vegetation Management Plan (HELP 19); and 3) Two drawings to scale (HELP 19)

Preparing Your Application for Mailing. To apply for both state and Federal authorization, your application must include Part I (Pages 1-4), the Federal application (Page 5) and attachments as indicated on final Checklist for Part I (Instructions, Page 4). Make three copies of the entire application and all attachments. Keep the original, and mail the three copies to the appropriate local, state, and Federal agencies (see below).

Mailing your application. Mail a complete copy of your application to each of the local state, and Federal entities listed below. Include Part I, and all attachments. If you are using the Public Road Maintenance Short Form Notice include required attachments.

LOCAL: Send to the appropriate Local Government Unit (LGU). Contact your county Soil and Water Conservation District (SWCD) office or the Board of Water and Soil Resources (BWSR) web site (www.bwsr.state.mn.us) for this information. SWCD offices are also listed on the BWSR web site.

For local road projects that qualify for wetland replacement under the BWSR Public Road Replacement Program, also send a complete copy of the application, including TEP member signatures on page 6, and attachments to the BWSR Wetland Banking Administrator at 1 West Water Street, Suite200, St. Paul, MN 55107, phone 651-297-4958.

STATE: Send to your area DNR Waters office, attention Area Hydrologist. Contact your county Soil and Water Conservation District (SWCD) office or the DNR web site (www.dnr.state.mn.us) for this information. Area offices can also be determined by contacting the applicable Regional DNR office:

NW Region: **2115 Birchmont Beach Road N.E.**
Bemidji, MN 56601
Phone: 218-755-3973

NE Region: **1201 East Highway 2**
Grand Rapids, MN 55744
Phone: 218-327-4416

Central Region: **1200 Warner Road**
St. Paul, MN 55106
Phone: 651-772-7910

Southern Region: **261 Highway 15 South**
New Ulm, MN 56073
Phone: 507 359-6053

FEDERAL: Send to the appropriate U.S. Army Corps of Engineers regulatory field office:

Brainerd: **U.S. Army Corps of Engineers, Regulatory Branch, 10867 E. Gull Lake Drive N.W., Brainerd, MN 56401-9051, Phone: 218-829-8402**

St. Paul: **U.S. Army Corps of Engineers, Regulatory Branch, Army Corps of Engineers Centre, 190 5th Street East, St. Paul, MN 55101-9051, Phone: 651-290-5375**

La Crescent: **U.S. Army Corps of Engineers, Regulatory Branch, 1114 South Oak Street, La Crescent, MN 55947-1338, Phone: 507-895-8059**

Two Harbors: **U.S. Army Corps of Engineers, Regulatory Branch, 1554 Highway 2, Suite 2, Two Harbors, MN 55616, Phone: 218-834-6630**

APPLICATION FOR WITHDRAWAL OF WETLAND CREDITS FROM THE MINNESOTA WETLAND BANK

Return Original to BWSR – Transaction may not be processed without original signatures

1. PROPOSED USER OF CREDITS

Name(s) City of Centerville

Address: 1880 Main Street
Centerville, MN 55038
City State ZIP

Day Phone (651)429-4750
Other Phone ( )

2. Impact Site Information

County Anoka Major Wtrshd No.20

Location: SW¼ NW¼ Sec 24, Twp.31, Rge 22

Size of Wetland Impact: 0.74 acres

Wetland Types[2] Impacted: 1

Topo Setting[3]: Tributary [pick one: shoreland / riverine / floodplain flow through / tributary / isolated]
Required Replacement Ratio: 2:1 WCA / local / COE
Amount to be replaced using Bank Credits: 1.48 ac
Amount replaced on site: 0
Project Name: Centerville Industrial Park Connector Road
Attach replacement plan if additional detail is needed.

3. OWNER / SELLER OF CREDITS

Account No. BWSR Bank Watershed No. 20

County: Anoka

Name of Seller: BWSR

(Name of Authorized Representative)

_____
(Signature of Seller/Authorized Representative)

4. Regulating Authority(ies) Approving the Use of Wetland Bank Credits

Replacement Plan approved by (check all that apply):

☒ Local WCA LGU: Rice Creek Watershed District (Print agency name)
Local Permit #

☒ U.S. Army Corps of Engineers: Permit #
☐ MN Dept. of Natural Resources: Permit #
☐ Natural Resources Conservation Service: Permit #
☐ Other authority involved:

☐ Enclosed 6.5% transaction fee, payable to "Board of Water & Soil Resources."

5. CREDITS PROPOSED TO BE WITHDRAWN FROM ACCOUNT NO.

Credit Sub-Group[1]	NWC or PVC	Acres withdrawn	Wetland Type[2]	Topo. Setting[3]	Cost (per acre)
1	NWC	0.74 ac	1	tributary	
2	PVC	0.74 ac		upland buffer	
	[pick one]			[pick one]	
	[pick one]			[pick one]	
Totals:					

[1]Letters signify credit sub-groups, which represent wetland areas with different wetland characteristics.
[2]Circular 39 types: 1, 1L, 2, 3, 4, 5, 6, 7, 8, R, U (for Upland Buffer).
[3]Topographic setting types: shoreland, riverine, floodplain, flow-through, tributary, isolated.
1 acre = 43,560 sq. ft.

BWSR Form: wca-bank-05 (online withdrawal form).doc
Revised 1/04/05

6. CERTIFICATION OF USER OF WETLAND CREDITS

The proposed user of credits hereby certifies that he/she: **a)** either owns the subject wetland credits or has entered into an agreement to purchase said credits, subject to the approval of all applicable regulatory authorities and **b)** has filed appropriate plans, specifications and application forms with all applicable regulatory authorities that describe the wetland or water resource impacts for which the subject wetland credits will be utilized for mitigation purposes.

Authorized Signature of Proposed User of Credits **PRINT Name** **Date**

7. REGULATORY AUTHORITY APPROVAL(S)

The following authorized representatives of the regulatory authority (ies) identified on page 1 of this application hereby certify that they have: a) verified that the subject wetland credits are deposited in the account of the owner / seller, b) approved a wetland replacement plan or other water resource impact under their jurisdiction, and c) approved the proposed use of the wetland bank credits described herein.

PRINT Name of WCA LGU Official **Signature of Authorized WCA LGU Official** **Date**

PRINT Name of Other Regulatory Official (if any) **Signature of Other Authorized Official** **Date**

Agency Address of Other Regulatory Official

8. CERTIFICATION OF OWNER / SELLER OF CREDITS

I am the holder of the aforementioned account in the State of Minnesota Wetland Mitigation Bank and hereby certify that:

1) the credits described in this application have either been sold to the user of credits or I will use them to mitigate wetland impacts for my own project,
2) I have received payment in full from the buyer (if applicable),
3) the credits have not been sold or used in any way to mitigate wetland losses other than for the project and location identified in the project site information block on the previous page,
4) the subject wetland credits should be withdrawn my account,
5) I will not have a negative balance of credits after the subject credits are debited from my account, and
6) the Annual Fee for this account has been paid (or will be with an enclosed check).

Authorized Signature of Owner / Seller of Credits **Date**

9. BWSR APPROVAL AND DEBITING OF ACCOUNT

I hereby certify that the credits have been properly debited from the subject account, effective the date of signature.

Authorized Signature **Date**

Upon approval by BWSR, a copy of this instrument will be mailed to the user of the credits, all regulatory authorities involved, the account holder and the Board Conservationist. A letter will also be sent to the account holder acknowledging the debit and new account balance.

IMPORTANT REMINDERS

1. **The Owner / Seller of the credits is responsible for submittal of this form, containing original signatures, to the BWSR Wetland Bank Administrator so the affected account can be properly debited.**
2. **No impacts to any wetland or other water resource may commence until the credits have been debited from the Minnesota Wetland Mitigation Bank and a copy of this approval has been mailed to the regulatory authority(ies), the account holder and the user of the credits.**
3. **It is a criminal offense for a seller of wetland credits to sell credits more than one time.** It is the responsibility of the account holder to report any credit sales that are not noted on the most current official BWSR account balance.

BWSR Form: wca-bank-05 (online withdrawal form).doc
Revised 1/04/05

Mail to: Bank Coordinator, Board of Water & Soil Resources
520 Lafayette Road North St. Paul, MN 55155

CENTERVILLE INDUSTRIAL PARK CONNECTOR ROAD

Wetland Permit Application

Appendix C – Wetland and Upland Buffer Seeding Plans

Wetland Seeding Plan

The following seeding plan utilizes elements and recommendations from the Minnesota Department of Transportation *2003 Seeding Manual.*

Preparation and Seeding

1. The smooth-graded wetland and buffer areas designated for seeding should be prepared by loosening topsoil to a minimum depth of 3 inches. Any designated non-wooded upland buffer areas that have not been graded and contain existing vegetation should be prepared by mowing at a height of 4-6 inches in late April/early May or late August/early September. The grass should be allowed to re-grow before herbicide application (1-3 weeks). Recommended herbicide rates are 2 quarts/acre of glyphosate and 1-2 quarts/acre of 2,4-D. The soil can then be loosened and seeded 7-10 days after herbicide treatment.

2. Seeding should be conducted either April 15-July 20 or Sept. 20-October 20. Seeding can be accomplished by broadcast or drilling. Broadcast seeding is particularly recommended for the wetland seed mixture unless the weather is hot and dry and/or the soil moisture content is low at the time of seeding. Broadcast seeding should by accomplished by use of any type of broadcast seeder capable of broadcasting the seed evenly over the entire area. Seed should be mixed thoroughly prior to seeding and should be mixed occasionally in the spreader to prevent separation and settling. If the drill seeding method is used, seed should be installed with a Truax-type seed drill containing a minimum of 2 seed boxes (fine seed box & box for large/fluffy seeds) and equipped with disc furrow openers and packer assembly to compact the soil directly over the drill rows. Maximum row spacing should be 8 inches. Small and fine seeds should be drop-seeded onto the surface from the fine seed box, and large/fluffy seed should be placed to obtain a final planting depth of ¼-½ inches. All drill seeding should be done at a right angle to surface drainage. Recommended seeding rates are given for the buffer and wetland seed mixtures at the end of this plan.

3. The seeded areas should be harrowed or raked following seeding. The areas should then be packed using a cultipacker or equivalent. Packing will be considered adequate when only a slight footprint is left in the soil after walking across the area.

4. Following packing, the areas should be mulched and disc-anchored at a rate of 2 tons/acre using MCIA certified weed free mulch, MnDOT Type 7 or 8 prairie hay/mulch, or MnDOT Type 1 clean straw mulch.

Maintenance and Evaluation of Seeding Success

Year 1 (spring seeding)

- Prepare and seed site April 15-July 20
- Mow 2 to 3 times (30 days apart) with mower deck 6-8 inches off the ground
- Optional mowing in early September
- Spot spray weedy species such as thistles, remove invasive shrubs (buckthorn)

Year 1 (fall seeding)

- Prepare and seed site September 20-October 20
- Mow 2 to 3 times (30 days apart) with mower deck 6-8 inches off the ground
- Spot spray weedy species such as thistles, remove invasive shrubs

Year 1 Evaluation

- Cover crop should be growing within 2 weeks of planting
- Native grass seedlings may only be 4-6 inches tall
- Seedlings should be spaced 1-6 inches apart in each drill row if drill seeded
- Flush growth of foxtail and other annuals may indicate need for more frequent mowing

Year 2

- Mow once with mower deck 6-8 inches off the ground prior to seed set of weedy species
- Spot spray weedy species as needed
- Some sites may not require maintenance in year 2 depending on seedling success

Year 2 Evaluation

- Cover crop will be gone unless winter wheat was used in a fall planting
- Grasses forming clumps 1-6 inches apart in drill rows, but still short
- Some flowers should be blooming
- Flush growth of foxtail and other annuals may indicate need for more frequent mowing

Year 3

- Most sites do not require much maintenance
- Mow only if necessary to control weedy annuals
- Spot spray weedy species as needed
- Plantings should look as intended with a diverse mixture of native grasses and forbs

Long-term

- Mowing not necessary or only occasionally
- Spot spraying of weeds if needed
- Optional burning in a 3-5 year rotation alternating spring and fall burns
- Optional haying in a 3-5 year rotation late summer or early fall. Alternate with burning or substitute for burning

Mixture W2 (Native Sedge/Wet Meadow)				
	Common Name	**Botanical Name**	**Indicator Status**	**% of Mix**
Grasses	Slough grass, American	*Beckmannia syzigachne*	OBL	25.0
	Brome, fringed	*Bromus ciliata*	FACW	5.0
	Blue-joint grass	*Calamagrostis canadensis*	OBL	1.0
	Wild-rye, Virginia	*Elymus virginicus*	FACW-	25.0
	Manna grass, reed	*Glyceria grandis*	OBL	1.0
	Manna grass, fowl	*Glyceria striata*	OBL	1.0
	Bluegrass, fowl	*Poa palustris*	FACW+	25.0
Graminoids	Sedge, bottlebrush	*Carex comosa*	OBL	1.0
	Sedge, tussock	*Carex stricta*	OBL	0.5
	Sedge, fox	*Carex vulpinoidea*	OBL	2.0
	Rush, slender	*Juncus tenuis*	FAC	0.3
	Bulrush, green	*Scirpus atrovirens*	OBL	1.0
	Wool grass	*Scirpus cyperinus*	OBL	0.1
	Bulrush, river	*Scirpus fluviatilis*	OBL	0.4
	Bulrush, soft-stem	*Scirpus validus*	OBL	1.6
Forbs	Anemone, Canada	*Anemone canadensis*	FACW	0.6
	Milkweed, marsh	*Asclepias incarnata*	OBL	1.0
	Aster, swamp	*Aster puniceus*	OBL	0.2
	Aster, flat-topped	*Aster umbellatus*	FACW	0.4
	Joe-pye weed	*Eupatorium maculatum*	OBL	0.2
	Boneset	*Eupatorium perfoliatum*	FACW+	0.2
	Goldenrod, grass-leaved	*Euthamia graminifolia*	FACW-	0.1
	Sneezeweed	*Helenium autumnale*	FACW+	0.2
	Sunflower, serrated	*Helianthus grosseserratus*	FACW-	0.4
	Iris, blue-flag	*Iris versicolor*	OBL	4.6
	Blazingstar, meadow	*Liatris ligulistylis*	FACU+	0.6
	Lobelia, great-blue	*Lobelia siphilitica*	FACW+	0.2
	Monkey flower	*Mimulus ringens*	OBL	0.1
	Mint, mountain	*Pycnanthemum virginianum*	FACW+	0.2
	Goldenrod, giant	*Solidago gigantea*	FACW	0.2
	Vervain, blue	*Verbena hastata*	FACW+	0.4
	Ironweed	*Veronia fasciculata*	FACW	0.4
	Culver's root	*Veronicastrum virginicum*	FAC	0.1
			Total:	**100.0**

Rate: 40 PLS lbs/acre

Mixture U6 (Native Dry Short-grass Bluff & Sand Prairie)			
	Common Name	**Botanical Name**	**% of Mix**
Grasses & Cover Crops	Oats or winter wheat*	*Avena sativa* or *Triticum aestivum*	36.0
	Grama, sideoats	*Bouteloua curtipendula*	8.0
	Grama, blue	*Bouteloua gracilis*	6.0
	Brome, Kalm's	*Bromus kalmii*	2.0
	Wild-rye, Canada	*Elymus canadensis*	10.0
	Wheat-grass, slender	*Elymus trachycaulus*	8.0
	June grass	*Koeleria macrantha*	4.0
	Rye-grass, annual	*Lolium italicum*	6.0
	Bluestem, little	*Schizachyrium scoparium*	10.0
	Dropseed, sand	*Sporobolus cryptandrus*	2.0
	Dropseed, prairie	*Sporobolus heterolepsis*	2.0
Forbs	Milkweed, butterfly	*Asclepias tuberosa*	0.4
	Aster, sky-blue	*Aster azureus*	0.1
	Aster, silky	*Aster sericeus*	0.1
	Coreopsis, prairie	*Coreopsis palmata*	0.3
	Prairie clover, white	*Dalea candidum*	0.6
	Prairie clover, purple	*Dalea purpureum*	1.0
	Sunflower, early	*Heliopsis heliantoides*	0.4
	Bush clover, round-headed	*Lespedeza capitata*	0.3
	Blazingstar, rough	*Liatris aspera*	0.2
	Blazingstar, dotted	*Liatris punctata*	0.2
	Bergamot, wild	*Mondarda fistulosa*	0.2
	Bee balm, spotted	*Mondarda punctata*	0.2
	Beardtongue, foxglove	*Penstemon digitalis*	0.2
	Penstemon, showy	*Penstemon grandiflorum*	0.2
	Coneflower, columnar	*Ratibida columnifera*	0.4
	Black-eyed Susan	*Rudbeckia hirta*	0.4
	Goldenrod, stiff	*Solidago rigida*	0.4
	Spiderwort, prairie	*Tradescantia bracteata*	0.2
	Alexander's, heart-leaved	*Zizia aptera*	0.2
		Total:	**100.0**

Rate: 15 PLS lbs/acre
***Note:** Oats are used in spring plantings and winter wheat in fall plantings